TEQNIVENT LIMITED

ENVIRONMENTAL SYSTEMS & EQUIPMENT

INDUSTRIAL FANS WITH IEC MOTORS

CATALOGUE 01

TEQNIVENT LIMITED
ENVIRONMENTAL SYSTEMS & EQUIPMENT

Our recognized professionalism and traditional reliability have gained Teqnivent Ltd an increasing loyal clientele and we are committed to servicing our customers throughout the globe.

Backed by more than 40 years of specialised technical and hands on experience we have gained an international reputation for high quality, well designed purpose built machines. Our primary objective is to offer a complete range of reliable products that meet the increasing demands of our clients' specific needs. In order to stay competitive and relevant we offer products to the highest standard at a competitive price that meets all European specifications and regulations.

In addition to standard production items our highly flexible production enables us to produce special fans upon request, each built to the same exacting standard but to specific individual needs. Please contact us for any design modification you may require.

We can facilitate the design and application of our fans into your products and provide seasoned advice to individual problems and needs. We are at your disposal for such requests.

We can also provide full technical drawings and detailed fan curves when required.

We have a purpose built facility in South Wales with convenient transport links around the UK.

Teqnivent Ltd

Unit D

Ty Verlon Industrial Estate

Cardiff Road

Barry

CF63 2BE

Tel: 01446 743012

Fax: 01446 700395

www.teqnivent.co.uk

FAN SELECTION

The main parameters for fan selection are: flow rate, pressure, efficiency and rotational speed.

FLOW RATE

The flow rate is the volume of the air taken in over a certain period of time and it is normally expressed in m^3 /s, cfm or m^3/h.

$Q_v = v\ A\ 3600$ where: Q_v = Flow rate in m^3/h
v = Average fluid speed in m/s
A = Outlet section in m^2

PRESSURE

The total pressure a fan can generate is the algebraic sum of the static and dynamic pressures and is normally expressed in mmH_20 or Pa.

The static pressure is that portion of the total pressure related to the fluid itself, no matter what its air speed: it is the potential energy that overcomes the resistance exerted by the circuit as the fluid passes through.

The dynamic pressure is derived from the kinetic effect of the moving fluid and is a function of the speed and density of that fluid.

$P_d = \frac{\gamma}{2g} v^2$ where: P_d = Dynamic pressure in mmH^20
γ = Specific gravity of the fluid
g = Gravity acceleration (9,81 m/s^2)
v = Average fluid speed in m/s

EFFICIENCY

The mechanical energy produced by the fan motor is always greater than the energy the fan imparts to fluid taken up. The percentage ratio between the latter and former is the efficiency.

$\eta = \frac{Qv\ Pt}{102\ PA}$ where η = Efficiency
Qv = Capacity in m^3/s
P_t = Total pressure in mmH^20
P_A = Absorbed power in Kw

FAN LAWS

The performance of a fan can be drawn from the variation in rpm "n".

1) The fan being equal, the variation in flow rate "Q_v" is proportional to the ratio of rpm.

$$Q_v1 = Qv\ \frac{n1}{n}$$

2) The fan being equal, the variation in pressure "P" is directly proportional to the square of the rpm.

$$P_1 = P\ \left[\frac{n1}{n}\right]^2$$

3) The fan being equal, the variation in absorbed power "P_A" is directly proportional to the cube of the rpm.

$$P_{A1} = P_A \left[\frac{n1}{n}\right]^3$$

For fans belonging to the same series, performance can be determined according to the variation in impeller diameter.

1) Rpm being equal, the variation in flow rate "Q_v" is proportional to the cube of the impeller diameter ratio.

$$Q_v1 = Qv\ \left[\frac{D1}{D}\right]^3$$

2) Rpm being equal, the variation in pressure "P" is proportional to the square of the impeller diameter ratio.

$$P_1 = P\ \left[\frac{D1}{\ }\right]^2$$

3) Rpm being equal, the variation in absorbed power "P_A" is proportional to the impeller diameter ratio raised to a power of five.

$$P_{A1} = P_A \left[\frac{D1}{D}\right]^5$$

WORKING DIAGRAMS

The pressure produced by the fan is not constant, it varies according to the flow rate.

Therefore, to use the fan correctly, you need to know the pressure that corresponds to each flow rate. Together these values give the working diagram.

VARIATION IN PERFORMANCE

The performance in the working diagrams refers to a fluid having a density of 1,226 kg/m^3 which corresponds to air at a temperature of 15°C and at a barometric pressure of 760 mmHg (sea level).

When the temperature of the barometric pressure change, the air density, and consequently the fan performance, varies.

The flow rate does not vary.

The total, static and dynamic pressures vary proportionally to changes in density.

Moreover, the absorbed power varies proportionally to changes in density.

Since barometric pressure varies with altitude, it is clear that altitude affects fan performance.

Therefore, if the fan is to be installed under conditions other than those indicated in the working diagrams, before choosing the machine, make the necessary corrections to the performance requirements and check them against the diagrams.

All you need to do is just multiply the pressure and absorbed power values by the coefficients in the table below:

Temperatura dell'aria in °C *Air temperature in °C*	ALTEZZA IN METRI SUL LIVELLO DEL MARE *ELEVATION IN METERS ABOVE SEA LEVEL*								
	0	500	1000	1500	2000	2500	3000	3500	4000
	PRESSIONE BAROMETRICA IN TORR (mmHg) *BAROMETRIC PRESSURE IN TORR (mmHg)*								
	760	720	680	640	600	560	530	500	470
0	1,293	1,225	1,156	1,088	1,020	0,952	0,901	0,850	0,799
15	1,266	1,161	1,096	1,032	0,967	0,903	0,854	0,806	0,758
50	1,093	1,035	0,977	0,920	0,862	0,805	0,762	0,719	0,676
100	0,947	0,896	0,846	0,797	0,747	0,697	0,660	0,622	0,585
150	0,835	0,790	0,746	0,702	0,659	0,615	0,582	0,549	0,516
200	0,745	0,707	0,667	0,628	0,589	0,550	0,520	0,491	0,461
250	0,675	0,639	0,604	0,568	0,533	0,497	0,471	0,444	0,417
300	0,616	0,583	0,551	0,519	0,486	0,454	0,429	0,405	0,381
350	0,567	0,537	0,507	0,477	0,447	0,417	0,395	0,373	0,350

WORKING POINT

The pressure needed to overcome pressure losses and the required flow rate give the working point along the curve.

It is always best for this point to be situated toward the centre of the curve, the best operating zone.

1) With the opening closed, that is with zero flow rate.
2) With the opening free, that is with zero static pressure; in this case total and dynamic pressure coincide.

REQUIRED FLOW RATE

To determine the flow rate required to ventilate an area, calculate the volume of the room and multiply it by the number of air exchanges.

AIR EXCHANGES PER HOUR

The term air exchanges indicates how many times an hour the air in a specific area must be changed to ensure satisfactory ventilation.

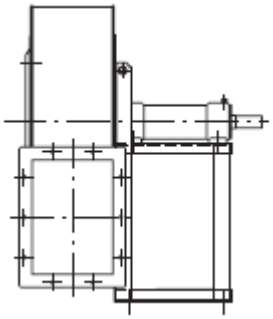
For your information the number of suggested air exchanges per hour is listed below:

Assembly rooms	4 - 8	Dye works	20 - 30	Living rooms	3 - 6
Bakeries	20 - 30	Electroplating shops	10 - 12	Mushroom houses	6 - 10
Banks/Building Societies	4 - 8	Engine rooms	15 - 30	Offices	6 - 10
Bathrooms	6 - 10	Entrance halls & corridors	3 - 5	Paint shops (not cellulose)	10 - 20
Bedrooms	2 - 4	Factories and workshops	8 - 10	Photo & X-ray darkrooms	10 - 15
Billiard Rooms *	6 - 8	Foundries	15 - 30	Public house bars	12 minimum
Boiler Rooms	15 - 30	Garages	6 - 8	Recording control rooms	15 - 25
Cafes and coffee bars	10 - 12	Glasshouses	25 - 60	Recording studios	10 - 12
Canteens	8 - 12	Gymnasiums	6 minimum	Restaurants	8 - 12
Cellars	3 - 10	Hairdressing salons	10 - 15	Schoolrooms	5 - 7
Changing Rooms Main area	6 - 10	Hospitals - sterilising	15 - 25	Shops and supermarkets	8 - 15
Changing Rooms Shower area	15 - 20	- wards	6 - 8	Shower baths	15 - 20
Churches	1 - 3	Kitchens - domestic	15 - 20	Stores & warehouses	3 - 6
Cinemas & theatres *	10 - 15	# - commercial	30minimum	Squash courts	4 minimum
Club rooms	12 minimum	Laboratories	6 - 15	Swimming baths	10 - 15
Compressor rooms	10 - 20	Laundrettes	10 - 15	Toilets	6 - 10
Conference rooms	8 - 12	Laundries	10 - 30	Utility rooms	15 - 20
Dairies	8 - 10	Lavatories	6 - 15	Welding shops	15 - 30
Dance halls	12 minimum	Lecture theatres	5 - 8		
Dental surgeries	12 - 15	Libraries	3 - 5		

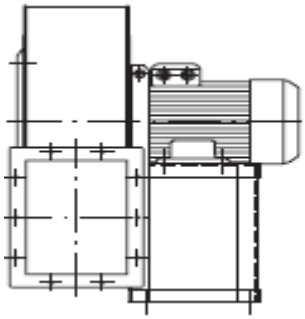
NOISE LEVEL

The noise level values indicated in the catalogue are expressed in dB(A) and are measured in an open area 1.5 meters from the fan operating with the highest output flow rate and connected to inlet and outlet pipe connections according to UNI standards.

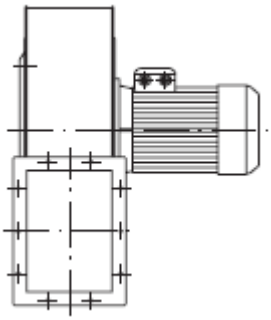
CENTRIFUGAL FANS CONSTRUCTION ARRANGEMENTS



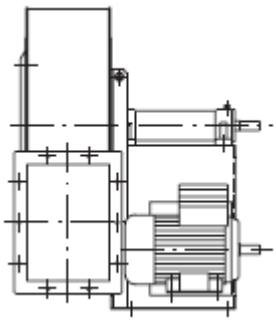
Arrangement 1 – For belt drive – Maximum fluid temperature 90°C, with cooling fan 350°C



Arrangement 4 – For direct drive – Maximum fluid temperature 80°C, with cooling fan 150°C with longer motor shaft and cooling fan 250°C.

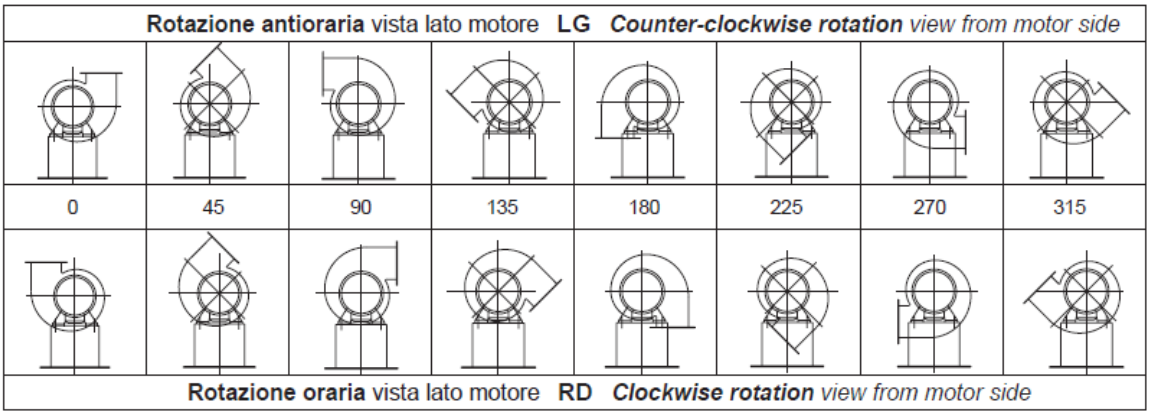


Arrangement 5 – For direct drive – Maximum fluid temperature 80°C, with cooling fan 150°C, with longer motor shaft and cooling fan 250°C.



Arrangement 9 – For belt drive – Maximum fluid temperature 90°C, with cooling fan 350°C.

DISCHARGE DIRECTIONS



Please note that the discharge directions are referred to by the foot mounting on B3/B5 motors

The terminal box is used as a reference when there is not a foot mounting present – on B5 motors.

UNITS OF MEASURE

Since not all countries use the same units of measure, a table of conversions is presented below to make consultation easier.

Flow rate:

Cubic meters per second	1 m^3/s	= 60 m^3/m = 3600 m^3/h
Cubic feet per minute	1cfm	= 0,000472 m^3/s = 1.7 m^3/h

Pressure:

Millimeters of water column	1 mmH20	= 9.81 Pa
Millibar	1 mbar	= 0,001 bar = 10.2 mmH^20
Pascal	1 Pa	= 0,102 mmH^20
Torr	1 mmHg	= 13.6 mmH^20
Inches of water column	1 inwg	= 25.4 mmH^20

Power:

Horse powers	1 Hp	= 735.5 w = 0.7355 Kw
Kwatt	1 Kw	= 1000 w = 1.36 Hp

HOW TO ORDER

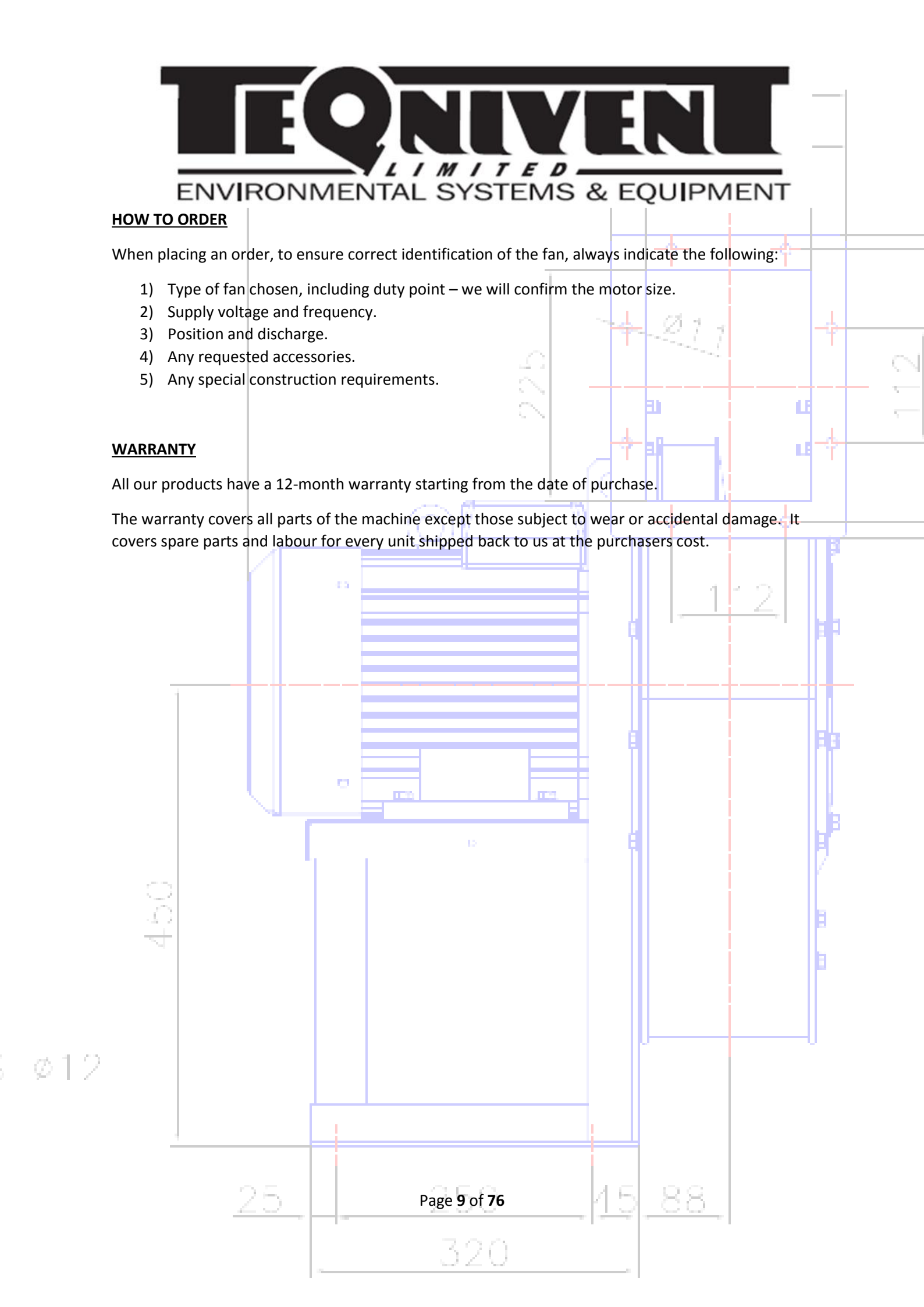
When placing an order, to ensure correct identification of the fan, always indicate the following:

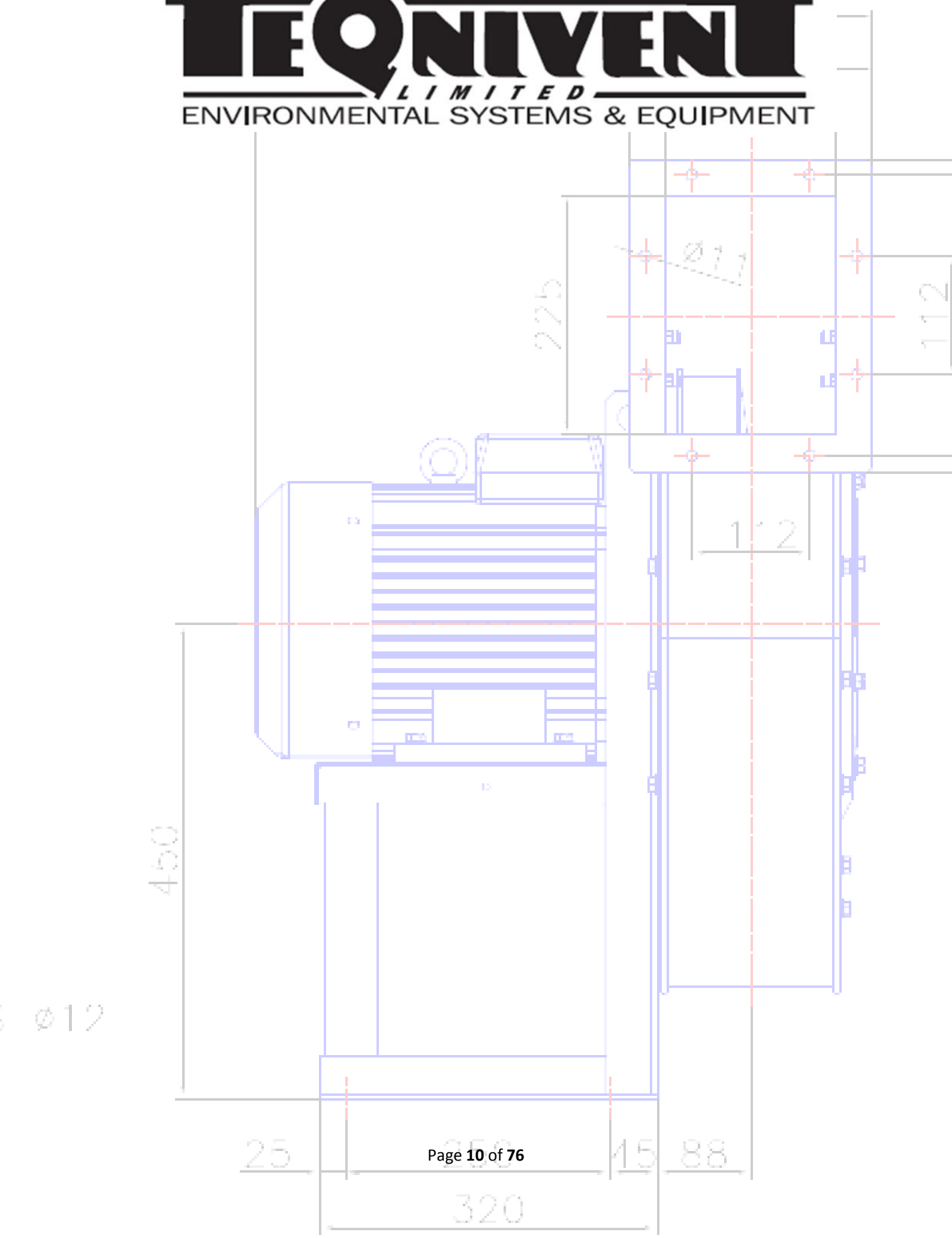
1) Type of fan chosen, including duty point – we will confirm the motor size.
2) Supply voltage and frequency.
3) Position and discharge.
4) Any requested accessories.
5) Any special construction requirements.

WARRANTY

All our products have a 12-month warranty starting from the date of purchase.

The warranty covers all parts of the machine except those subject to wear or accidental damage. It covers spare parts and labour for every unit shipped back to us at the purchasers cost.




112
112
25
320
15
88

TEQNIVENT LIMITED
ENVIRONMENTAL SYSTEMS & EQUIPMENT

CENTRIFUGAL FANS

GENERAL FEATURES

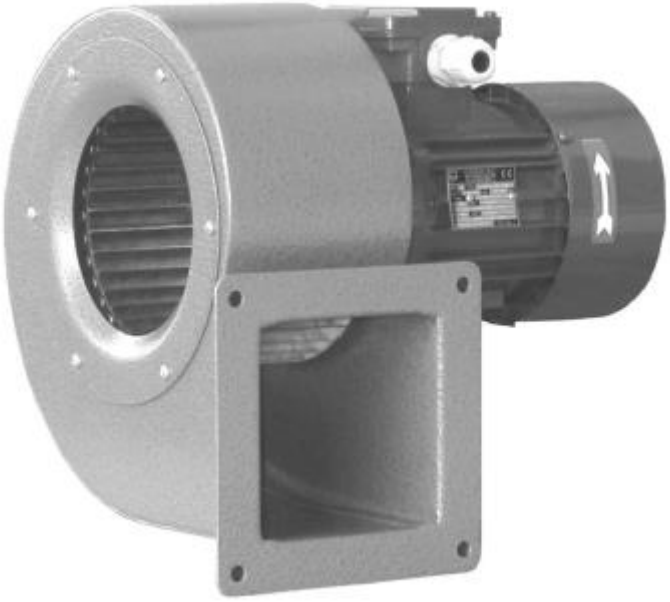
The Series **U/HC** centrifugal fans are designed to take up fumes or even slightly dusty air at **temperatures** of up to a maximum 80°C.

These fans are used for all domestic and industrial applications requiring the removal of large volumes of ducted air.

The outlet of the spot-welded steel sheet **spiral casings** are fitted with securing flanges. The special holes make it possible to orient the fan discharge angle in 45° steps by rotating either clockwise RD or counter-clockwise LG (see discharge direction table).

The steel sheet **impellers** with forward curved "Sirocco"-type blades, have been carefully balanced, both statically and dynamically, and are connected directly to the motor shaft.

The **motors** installed are asynchronous, three-phase or single-phase, 2 or 4 poles, B5, self-ventilated, designed for continuous service and are UNEL and IEC compliant.



ACCESSORIES

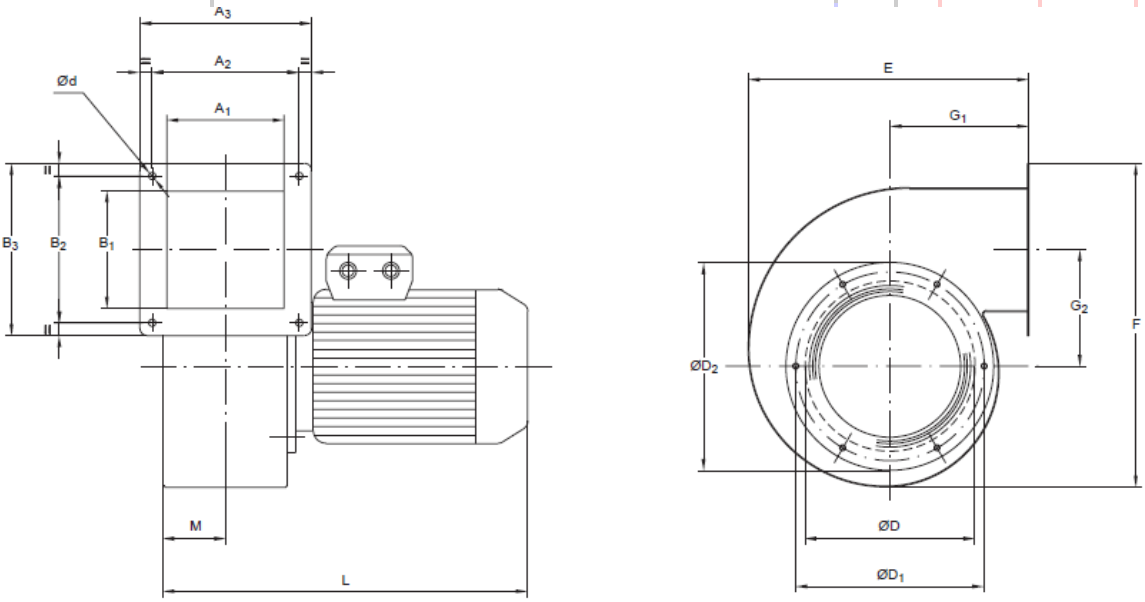
RP	inlet protection net
RA	onlet spigot
RF	inlet flanged fitting
CA	inlet counter-flange
FL	inlet filter
SF	throttle valve
SI	iris flow control
RM	outlet protection net
CM	outlet counter-flange
QT	outlet square-round joint
BA	motor support base

N.B.: For further information see accessories section

SPECIAL VERSIONS

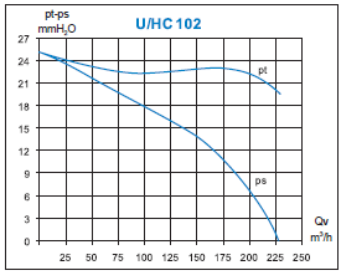
AI	made of stainless steel AISI 304 to extract corrosive fumes
AS	anti-spark version in accordance with ANIMA-COAER standards (table NV105)
HZ	manufactured to work at Hz. 60
HT	conveyed fluid temperature up to a maximum of 250oC (this version is made with longer shaft motor and extra cooling fan)
TH	high protection for use in tropical climate with high degree of humidity
EX	ATEX version zone 1 – zone 2 (GAS) and zone 21 – zone 22 (DUST) U/HC 102 excluded

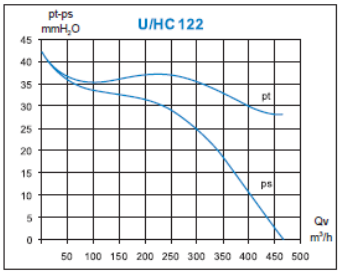
OVERALL DIMENSIONS

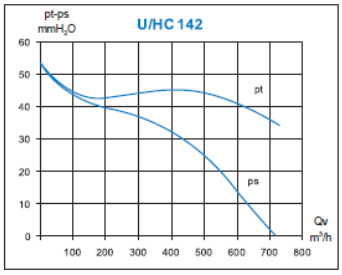


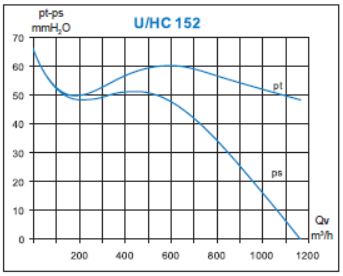
Ventilatore *Fan* Tipo/*Type*	A_1	B_1	A_2	B_2	A_3	B_3	ød	øD	$øD_1$	$øD_2$	E	F	G_1	G_2	L	M	kg
U/HC 102	60	60	76	76	90	90	7	90	109	120	158	180	79	68	217	33	2,3
U/HC 122	80	80	96	96	115	115	8,2	119	136	150	205	238	93	84	254	43	4,2
U/HC 142	90	90	112	112	130	130	8,2	129	155	170	219	252	109	92	271	48	5,6
U/HC 152	108	108	137	137	160	160	8,2	150	175	190	252	290	129	98	301	57	7,1
U/HC 161															306		8,1
U/HC 162	108	108	137	137	160	160	8,2	148	175	190	252	290	129	98	329	57	9
U/HC 164															290		7,1
U/HC 181															341		11,7
U/HC 182	118	118	147	147	170	170	8,2	169	200	215	288	334	142	118	358	63	13,2
U/HC 184															313		7,8
U/HC 201															377		15,9
U/HC 202	137	137	171	171	200	200	8,2	189	220	242	327	376	162	136	400	73	21
U/HC 204															337		9,7

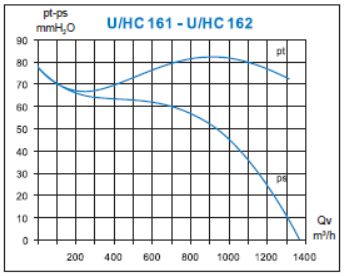
MODELS AND PERFORMANCES

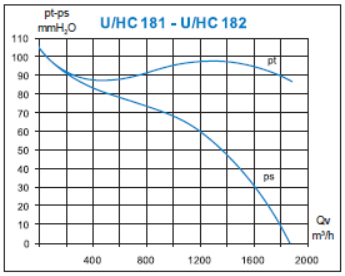


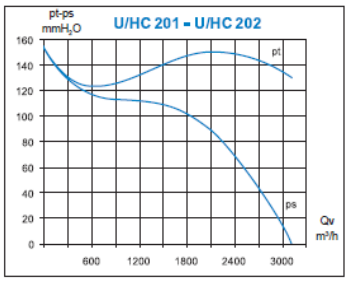


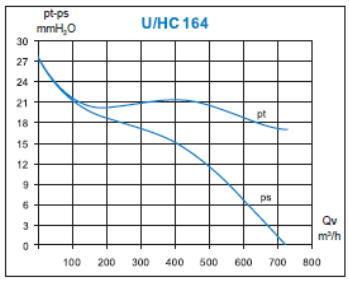


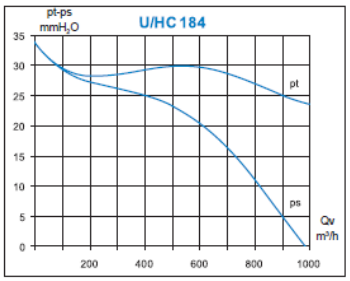


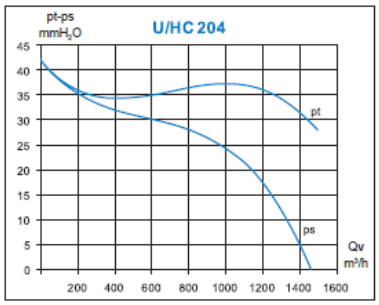












TEQNIVENT LIMITED
ENVIRONMENTAL SYSTEMS & EQUIPMENT

GENERAL FEATURES

The **U/AR** series centrifugal fans are designed to convey both fumes and air, even slightly dusty, at **temperatures** of up to a maximum 80°C.

These fans are **used** for ventilation and conditioning, and generally when systems require high flow rates at medium pressure.

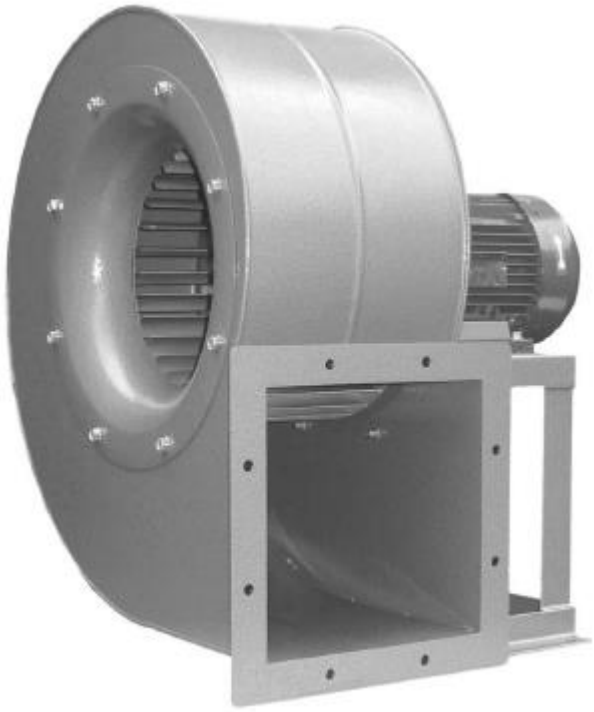
The steel sheet **spiral casings** are of adequate thickness and have been carefully rimmed and welded. These fans have a base for the motor and the discharge angle can be adjusted in 45° steps by rotating either clockwise RD or counter-clockwise LG (see discharge direction table).

The welded steel sheet **impellers** have high performance forward-curved blades. Each impeller has been perfectly balanced, both statically ad dynamically, and is directly connected to the motor shaft.

The **motors** installed are asynchronous, three-phase or single-phase, B3, self-ventilated, with IP55 protection, designed for continuous service and are UNEL and IEC compliant.

ACCESSORIES

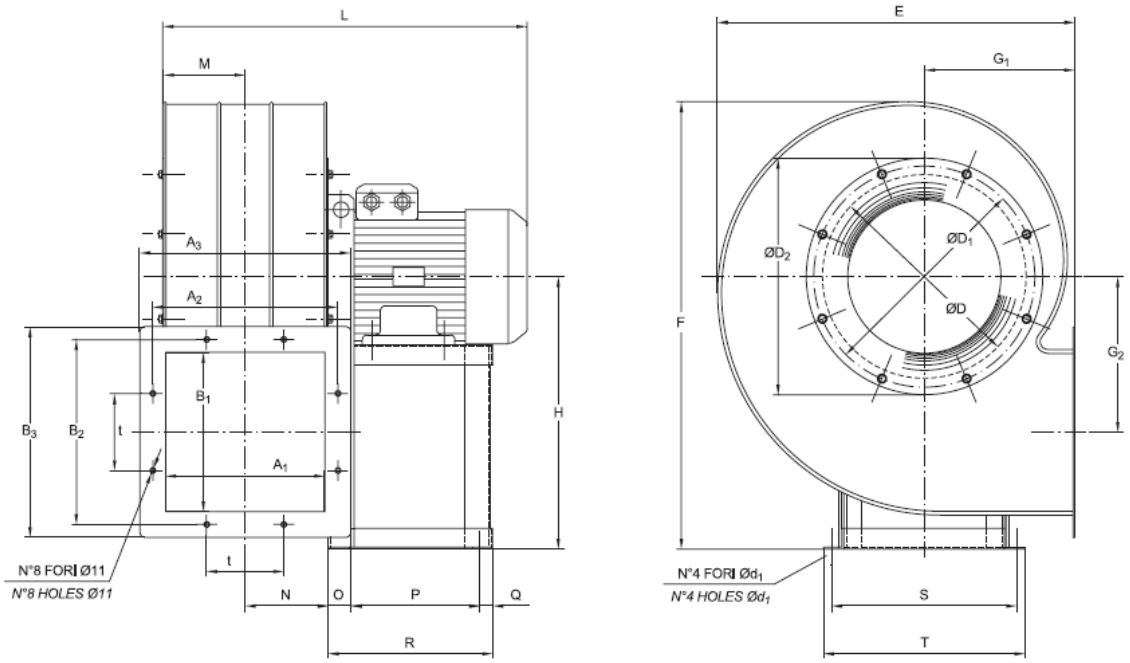
RP inlet protection net
GA inlet isolating joint
RA inlet spigot
RF inlet flanged fitting
CA inlet counter-flange
FL inlet filter
SF throttle valve
RM discharge finger guard
GM feed vibration-damping joint
CM discharge counter-flange
QT discharge square-round joint
SM discharge silencer
TS drain plug
PI inspection door
AV vibration dampers



SPECIAL VERSIONS

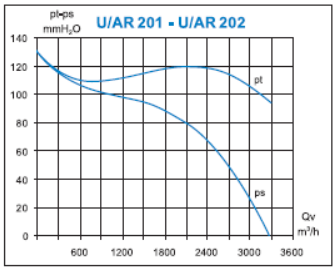
AI made of stainless steel AISI 304 to extract corrosive fumes
AS anti-spark version in accordance with ANIMA-COAER standards (table NV105)
HZ manufactured to work at Hz. 60
HT conveyed fluid temperature up to a maximum of 250oC (this version is made with longer shaft motor and extra cooling fan)
SB arrangement 5 with motor type B5 or B3/B5 without motor support base
TH high protection for use in tropical climate with high degree of humidity
TR belt drive, 9 or 12 arrangement

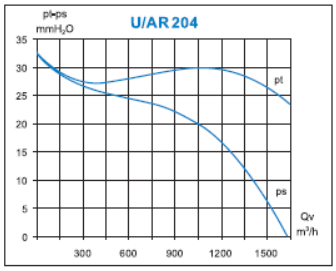
OVERALL DIMENSIONS

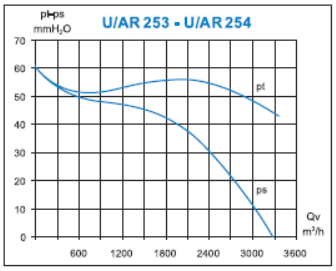


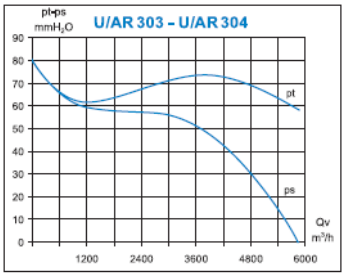
Ventilatore / *Fan* Tipo/*Type*	A_1	B_1	A_2	B_2	A_3	B_3	t	øD	$øD_1$	$øD_2$	E	F	G_1	G_2	H	L	M	N	O	P	Q	R	S	T	$ød_1$	kg
U/AR 201																400			50	125	15	190	215	234	11	21
U/AR 202	156	156	181	181	210	210	80	205	241	265	367	435	181	143	270	420	82	83	60	137	18	215	245	274	12	27
U/AR 204																360			50	125	15	190	215	234	11	18
U/AR 253																410										22
U/AR 254	184	184	215	215	245	245	90	255	292	320	424	516	201	169	315	420	97	97	50	125	15	190	215	234	11	23
U/AR 256																410										21
U/AR 303																500										38
U/AR 304	230	230	270	270	310	310	110	285	332	365	522	645	230	216	400	520	119	121	60	137	18	215	245	274	12	41
U/AR 306																475			50	125	15	190	215	234	11	32
U/AR 353																										58
U/AR 354	270	270	310	310	350	350	120	360	405	440	604	734	266	252	450	600	140	141	35	200	25	260	300	332	12	63
U/AR 356																570			60	137	18	215	245	274		47
U/AR 403																										103
U/AR 404	310	310	360	360	410	410	150	405	448	485	695	870	295	303	530	740	160	163	45	250	25	320	360	392	12	115
U/AR 406																650		161	35	200		260	300	332		80
U/AR 453																780			45	250	25	320	360	392	12	132
U/AR 454	350	350	400	400	450	450	180	455	497	535	757	930	320	328	560	870	180	183	55	340	30	425	400	442	14	175
U/AR 456																780			45	250	25	320	360	392	12	108
U/AR 505																810			45	250	25	320	360	392	12	139
U/AR 506	380	380	430	430	480	480	210	505	551	585	826	1036	346	362	630	910	195	198	55	340	30	425	400	442	14	181
U/AR 508																810			45	250	25	320	360	392	12	138

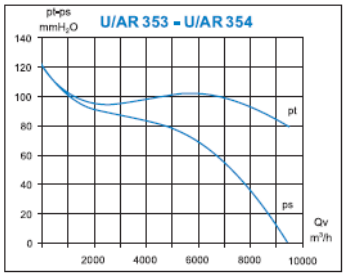
MODELS AND PERFORMANCES

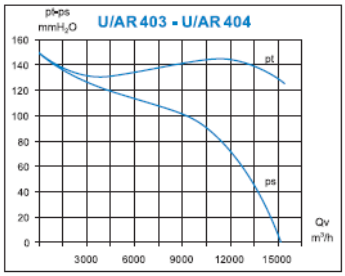


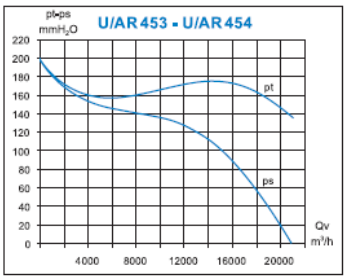


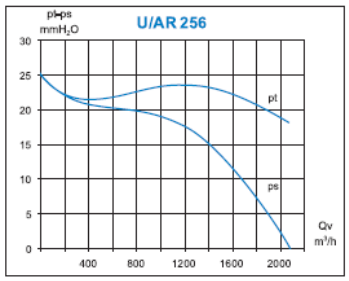


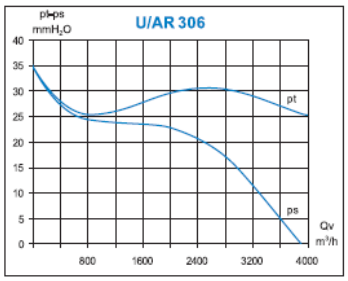


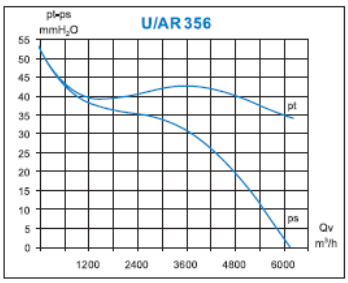


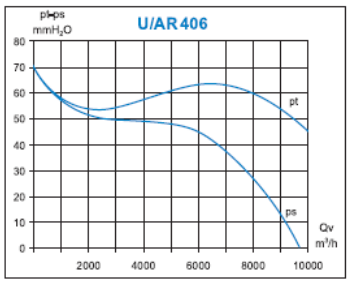


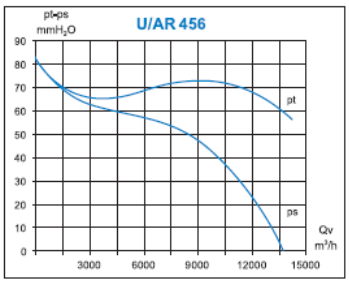




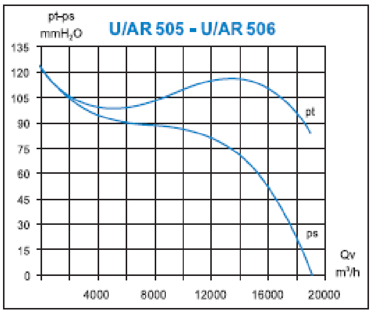


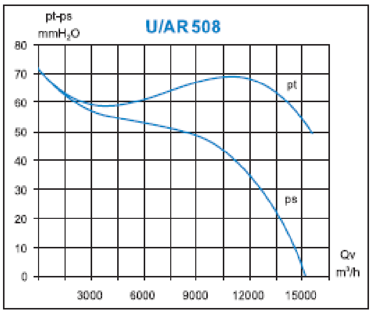


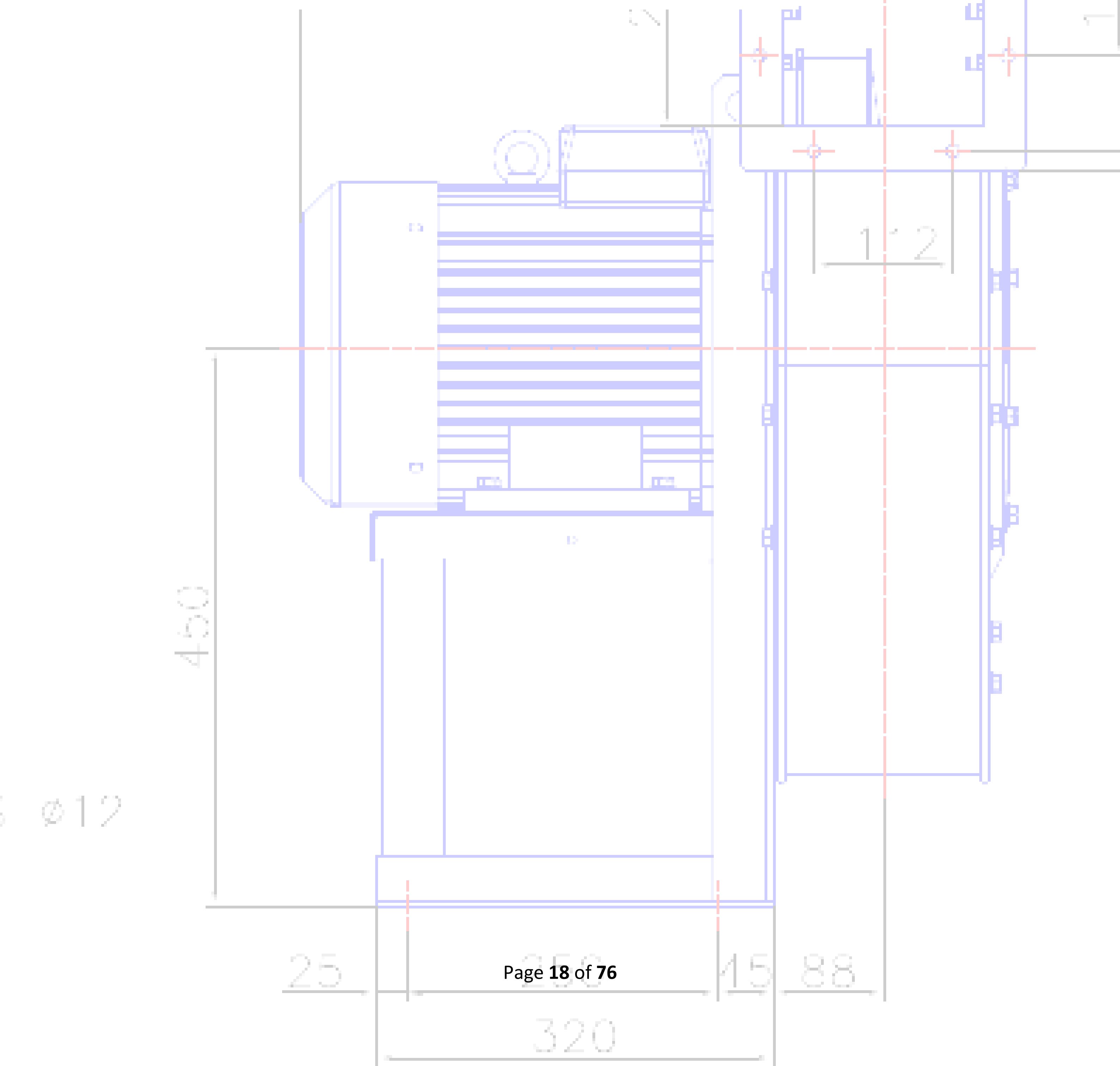




TEQNIVENT LIMITED
ENVIRONMENTAL SYSTEMS & EQUIPMENT







GENERAL FEATURES

The **U/ARP** series centrifugal fans are suited to convey air, even slightly dusty, at **temperatures** of up to a maximum 80°C. These have narrower but larger diameter blades for higher pressure development.

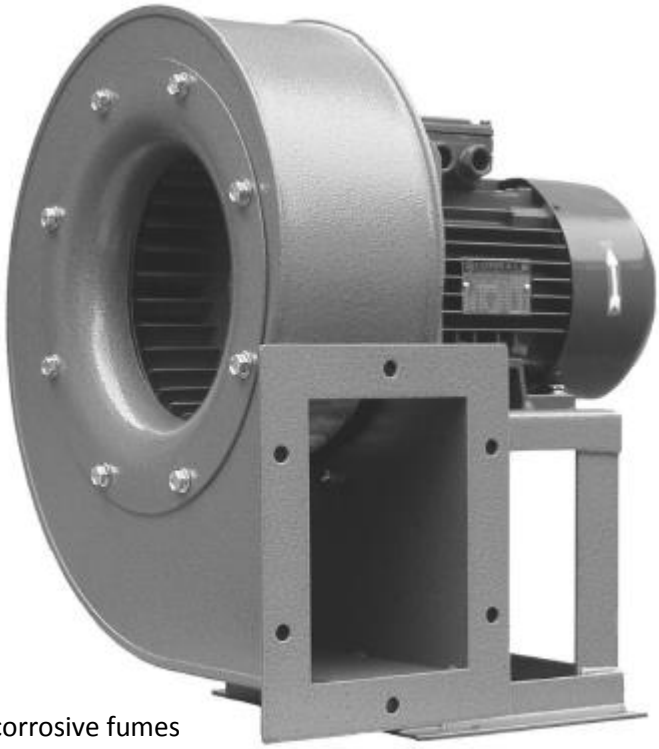
These fans are **used** in all the industrial applications requiring medium pressures and flow rates.

The thick steel sheet **spiral casings** are rimmed and welded. These fans have a base for the motor and the discharge angle can be adjusted in 45° steps by rotating either clockwise RD or counter-clockwise LG (see discharge direction table).

The steel sheet **impellers** have forward-curved blades. They are carefully balanced, both statically and dynamically, and are directly connected to the motor shaft.

The **motors** installed are asynchronous, three-phase or single-phase, 2 poles, B3, with IP55 protection, self-ventilated, designed for continuous service and are UNEL and IEC compliant.

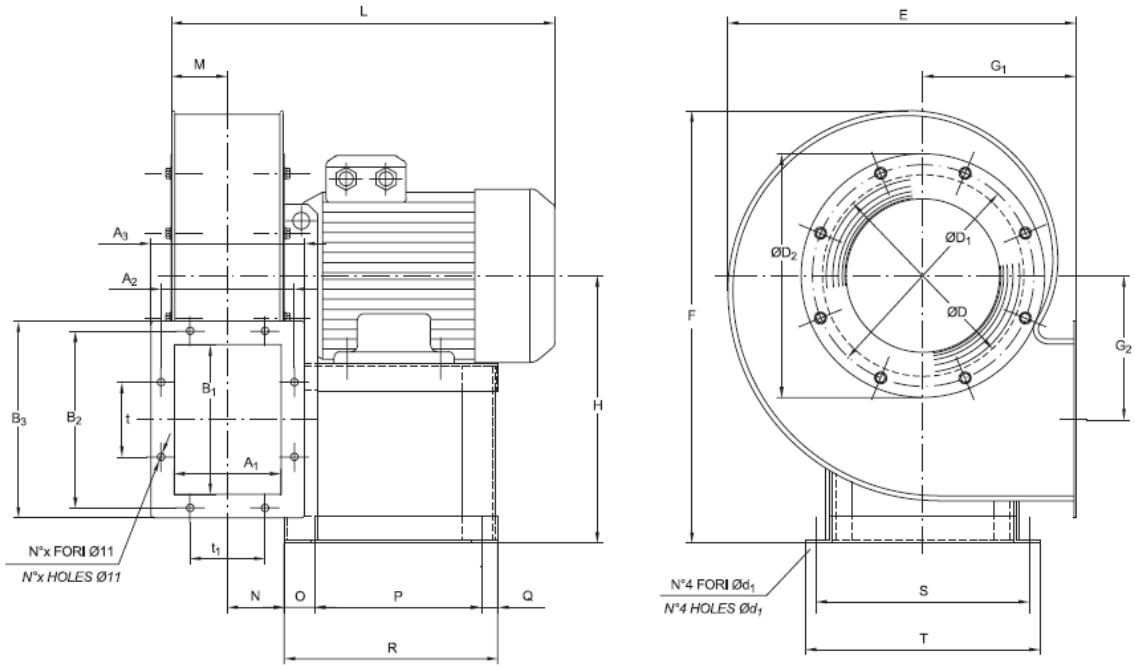
ACCESSORIES



RP inlet protection net
GA intaking vibration-damping joint
RA intaking joint
RF inlet flanged fitting
CA inlet counter-flange
FL inlet filter
SA inlet silencer
SF throttle valve
RM outlet protection net
GM feed vibration-damping joint
CM outlet counter-flange
QT outlet square-round joint
SM outlet silencer
TS discharge plug
PI inspection door
AV vibration dampers

AI made of stainless steel AISI 304 to extract corrosive fumes
AS anti-spark version in accordance with ANIMA-COAER standards (table NV105)
HZ manufactured to work at Hz. 60
HT conveyed fluid temperature up to a maximum of 250oC (this version is made with longer shaft motor and extra cooling fan)
SB arrangement 5 with motor type B5 or B3/B5 without motor support base
TH high protection for use in tropical climate with high degree of humidity
TR belt drive, 9 or 12 arrangement
EX ATEX version zone 1 – zone 2 (GAS) and zone 21 – zone 22 (DUST)

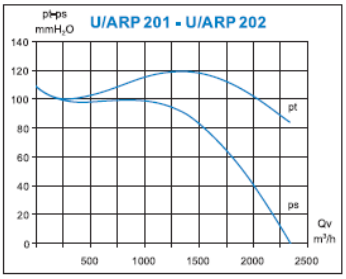
OVERALL DIMENSIONS

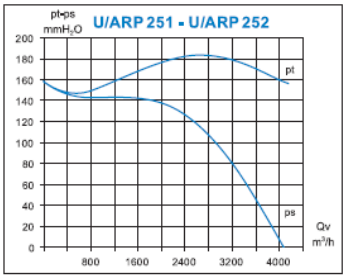


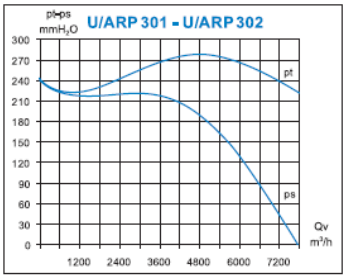
Ventilatore *Fan* Tipo/*Type*	A_1	B_1	A_2	B_2	A_3	B_3	t	t_1	N°x	øD	$øD_1$	$øD_2$	E	F	G_1	G_2	H	L	M	N	O	P	Q	R	S	T	$ød_1$	kg
U/ARP 201	112	160	152	200	182	230	112	-	6	205	241	265	361	435	181	143	270	335	60	61	50	125	15	190	215	234	11	20
U/ARP 202																		355										22
U/ARP 251	125	180	166	218	196	250	112	-	6	255	292	320	424	516	201	169	315	390	67	68	60	137	18	215	245	274	12	30
U/ARP 252																		415										33
U/ARP 301	160	224	200	265	230	295	112	112	8	285	332	365	522	645	230	216	400	555	85	86	45	250	25	320	360	392	12	89
U/ARP 302																		590										100

Dimensioni in mm — *Dimensions in mm*

MODELS AND PERFORMANCES







GENERAL FEATURES

The **U/AP** series centrifugal fans are designed to take up fumes or air, even slightly dusty, at **temperatures** of up to a maximum 80°C.

These fans are **employed** in all industrial plants where medium-to-high pressure values are required.

The steel sheet **spiral casings** are pressed and spot-welded or rimmed and welded and the outlet is fitted with a securing flange to make any pipe-connections easier. These fans can be directed in 45° steps by rotating either clockwise RD or counter-clockwise LG (see discharge direction table).

The spot-welded steel sheet **impellers** with forward-curved "Sirocco"-type blades have been carefully balanced , both statically and dynamically, and are connected directly to the motor shaft.

The **motors** installed are asynchronous, three-phase or single-phase, 2 poles, B5, with IP55 protection, self-ventilated, designed for continuous service and are UNEL and IEC compliant.

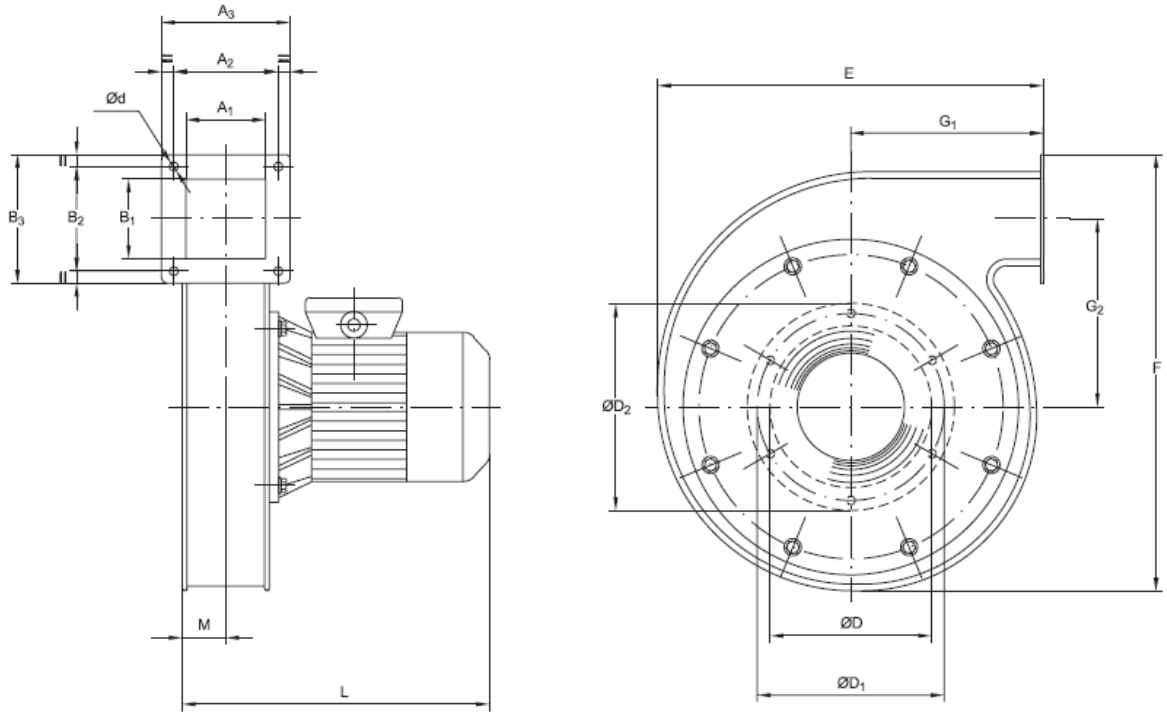
ACCESSORIES

RP inlet protection net
RA intaking joint
RF inlet flanged fitting
CA inlet counter-flange
FL inlet filter
SA inlet silencer
SF throttle valve
SI iris flow control
RM outlet protection net
CM outlet counter-flange
QT outlet square-round joint
SM outlet silencer
BA motor support base

SPECIAL VERSIONS

AI made of stainless steel AISI 304 to extract corrosive fumes
AS anti-spark version in accordance with ANIMA-COAER standards (table NV105)
HZ manufactured to work at Hz. 60
HT conveyed fluid temperature up to a maximum of 250oC (this version is made with longer shaft motor and extra cooling fan)
TH high protection for use in tropical climate with high degree of humidity
EX ATEX version zone 1 – zone 2 (GAS) and zone 21 – zone 22 (DUST)

OVERALL DIMENSIONS

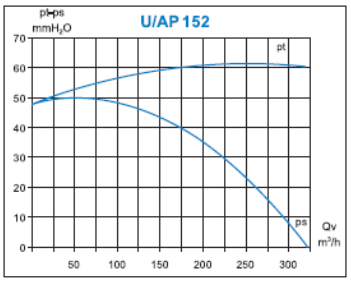


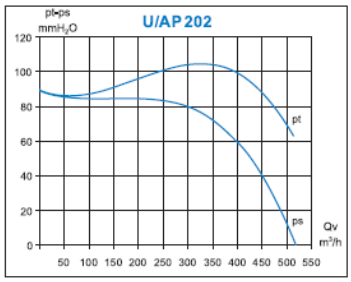
Ventilatore *Fan* Tipo/*Type*	A_1	B_1	A_2	B_2	A_3	B_3	ø d	øD	$øD_1$	$øD_2$	E	F	G_1	G_2	L	M	kg
U/AP 152	54	54	76	76	90	90	7	148	175	190	222	254	104	100	228	30	4,3
U/AP 202	67	67	86	86	110	110	8,2	119	136	150	271	328	128	146	255	37	6,8
U/AP 252	70	70	95	95	120	120	9	148	175	190	348	380	167	146	268	39	11,5
U/AP 282	84	84	110	110	135	135	9	148	175	190	416	450	200	178	308	46	16
U/AP 301	84	84	110	110	135	135	9	148	175	190	416	450	200	178	308	46	18
U/AP 302															325		19,5
U/AP 351	90	90	115	115	140	140	9	169	200	215	494	531	240	214	353	49	29
U/AP 352															378		31,5
U/AP 402	90	90	115	115	140	140	9	189	220	242	555	607	263	264	420	49	54

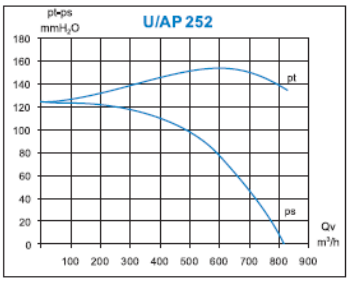
Dimensioni in mm

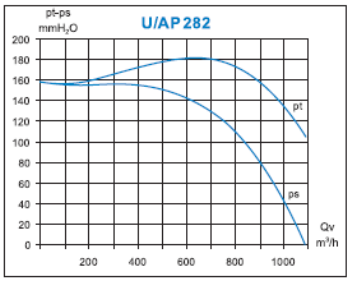
Dimensions in mm

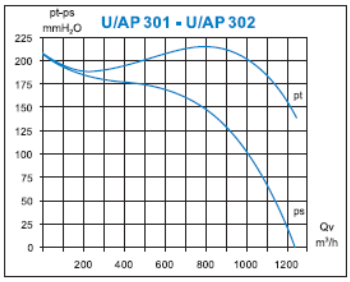
MODELS AND PERFORMANCES

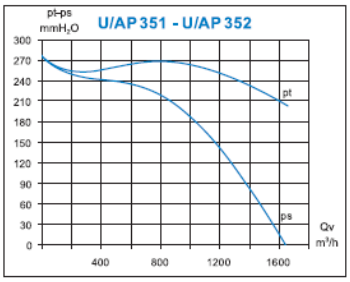


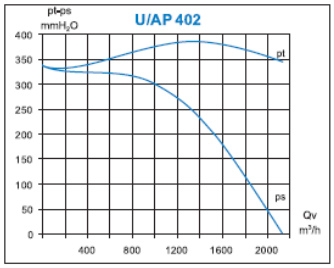












GENERAL FEATURES

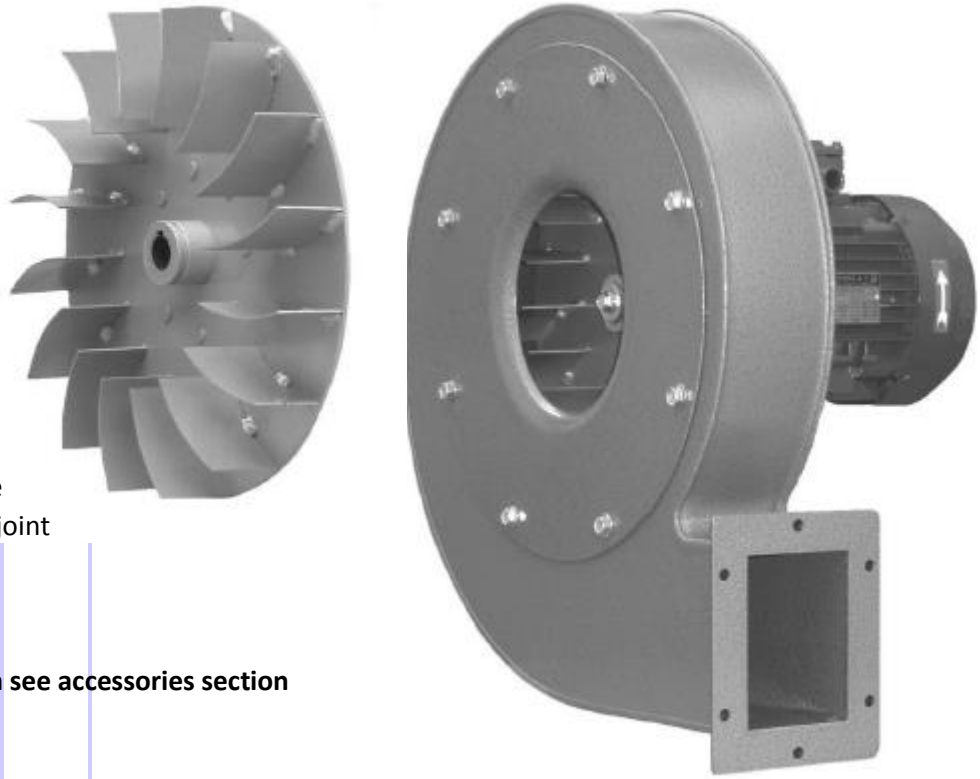
The **U/RF** series centrifugal fans are designed to take up air, both clean and dusty, at **temperatures** of up to a maximum 80°C.

These fans are **used** in all industrial applications requiring medium-to-high pressures; furthermore they can also be used as pneumatic conveyors of granular, but not stringy, materials.

The strong steel sheet **spiral casings** are rimmed and welded. Special holes make it possible to direct the fan discharge angle in 45°C steps by rotating either clockwise RD or counter-clockwise LG (see discharge direction table).

The welded steel sheet **impellers** with forward open blades have been carefully balanced, both statically and dynamically, and are connected directly to the motor shaft.

The **motors** installed are asynchronous, three-phase or single-phase, 2 poles, B5 with IP55 protection, self-ventilated, designed for continuous service and are UNEL and IEC compliant.



ACCESSORIES

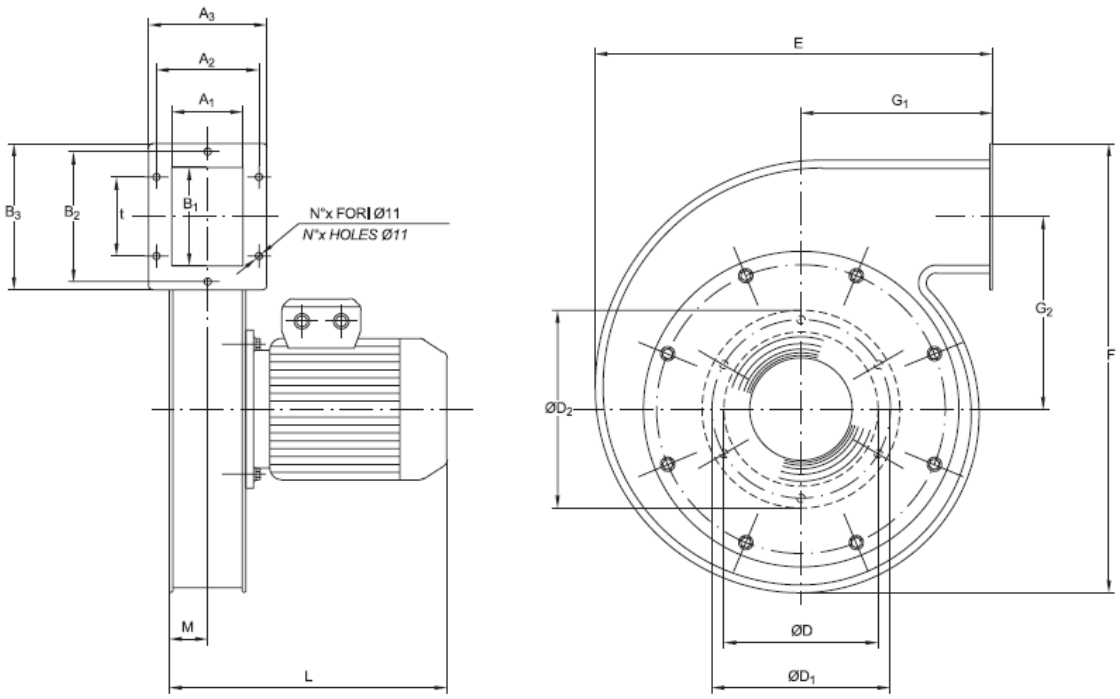
RP	inlet protection net
RA	intaking joint
RF	inlet flanged fitting
CA	inlet counter-flange
FL	inlet filter
SA	inlet silencer
SF	throttle valve
SI	iris flow control
RM	outlet protection net
CM	outlet counter-flange
QT	outlet square-round joint
SM	outlet silencer
BA	motor support base

N.B.: For further information see accessories section

SPECIAL VERSIONS

AI	made of stainless steel AISI 304 to extract corrosive fumes
AS	anti-spark version in accordance with ANIMA-COAER standards (table NV105)
HZ	manufactured to work at Hz. 60
HT	conveyed fluid temperature up to a maximum of 250oC (this version is made with longer shaft motor and extra cooling fan)
TH	high protection for use in tropical climate with high degree of humidity
EX	ATEX version zone 1 – zone 2 (GAS) and zone 21 – zone 22 (DUST)

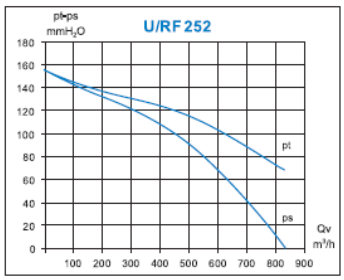
OVERALL DIMENSIONS

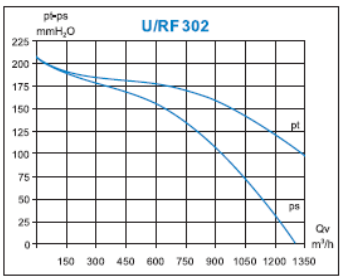


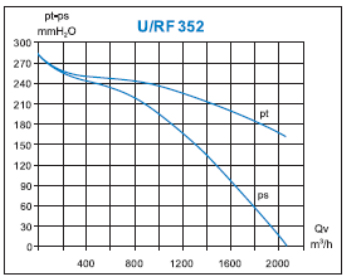
Ventilatore *Fan* Tipo/*Type*	A_1	B_1	A_2	B_2	A_3	B_3	t	N°x	øD	$øD_1$	$øD_2$	E	F	G_1	G_2	L	M	kg
U/RF 252	71	100	100	125	131	160	-	4	148	175	190	395	450	177	193	270	40	14,7
U/RF 302	80	112	112	140	140	172	-	4	169	200	215	440	510	211	214	305	45	20
U/RF 352	90	125	130	165	150	185	100	6	189	220	242	505	570	238	240	355	50	31,3
U/RF 402	100	140	141	182	170	210	112	6	189	220	242	550	617	258	248	390	55	37,8
U/RF 403	100	140	141	182	170	210	112	6	205	241	265	550	617	258	248	426	55	46

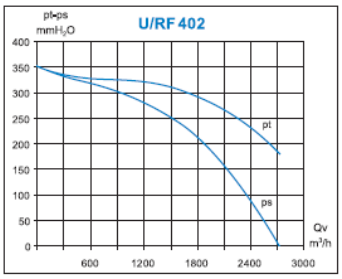
Dimensioni in mm *Dimensions in mm*

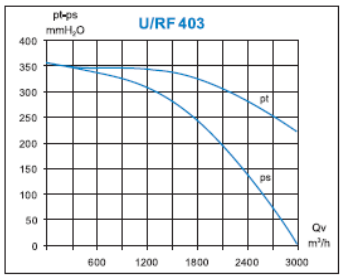
MODELS AND PERFORMANCES

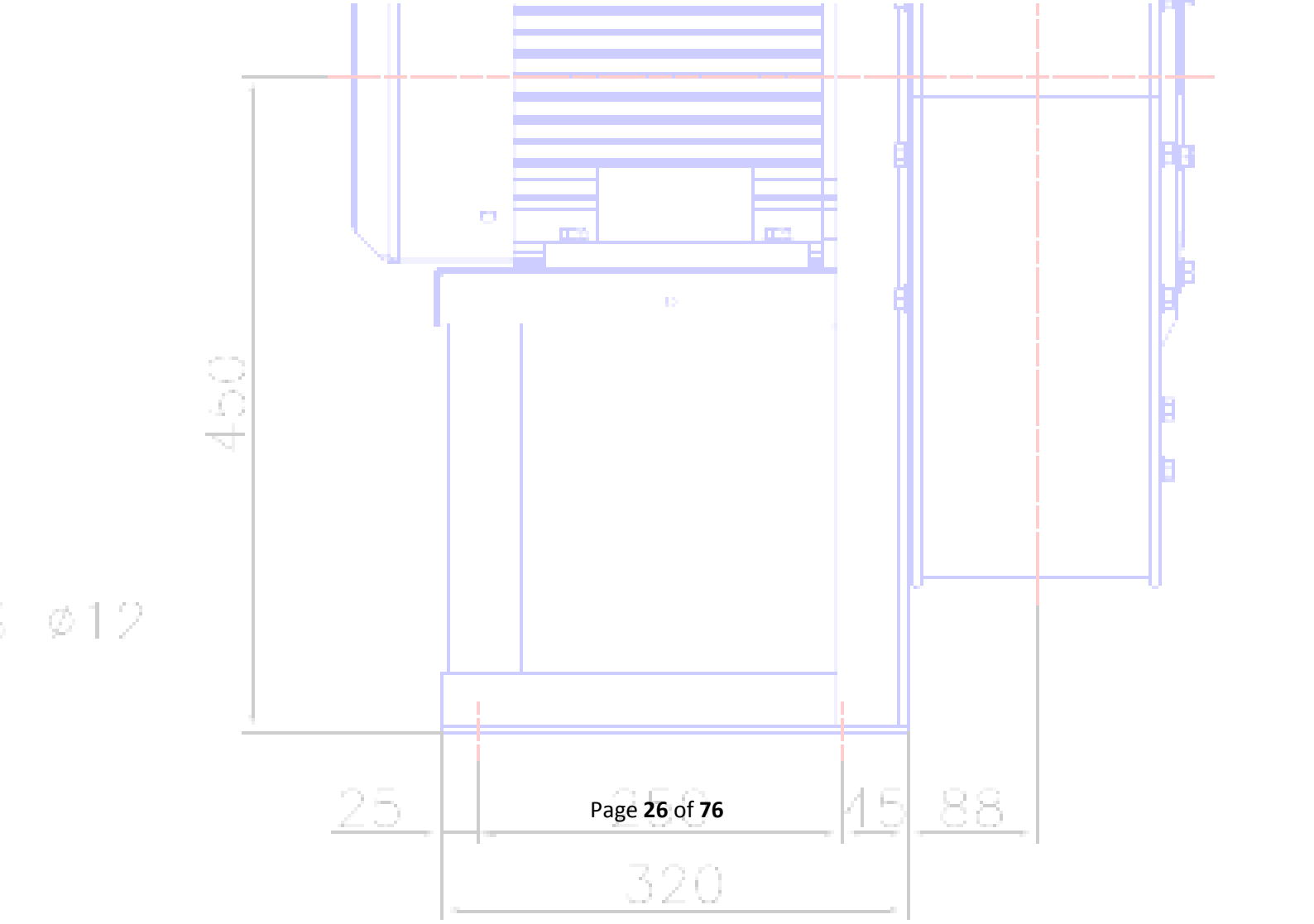












GENERAL FEATURES

The **U/TM** series centrifugal fans are designed to take up air, even very dusty and containing suspended materials, at **temperatures** of up to a maximum 80°C.

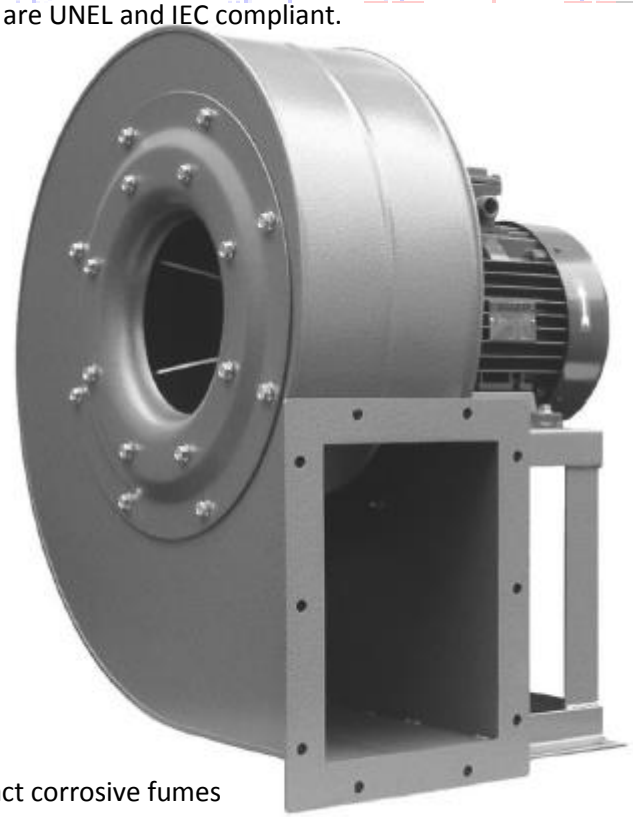
These fans are **used** in all the industrial plants requiring medium-to-high pressures, e.g. the pneumatic conveyance of granulates, shavings or trimmings.

The strong steel sheet **spiral casings** are rimmed and welded. These fans are provided with a base for the motor and the discharge angle can be adjusted in 45° steps by rotating either clockwise RD or counter-clockwise LG (see discharge direction table).

The welded steel sheet **impellers** with forward open blades have been carefully balanced, both statically and dynamically. These have been designed to convey material.

The **motors** installed are asynchronous, three-phase, 2 poles, B3, with IP55 protection, self-ventilated, designed for continuous service and are UNEL and IEC compliant.

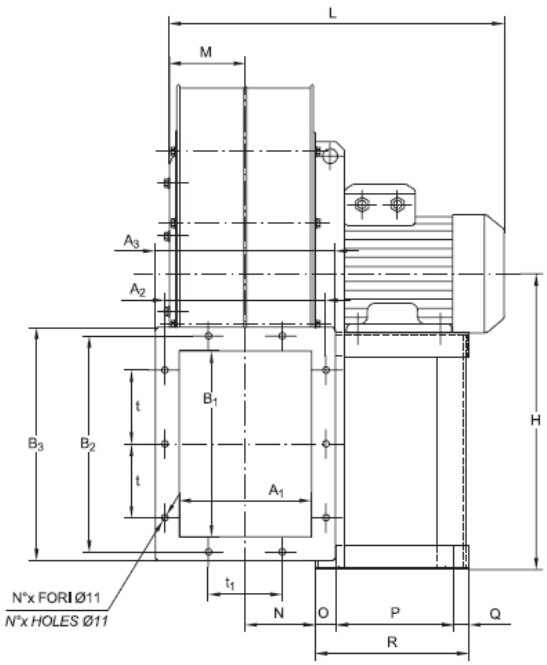
ACCESSORIES

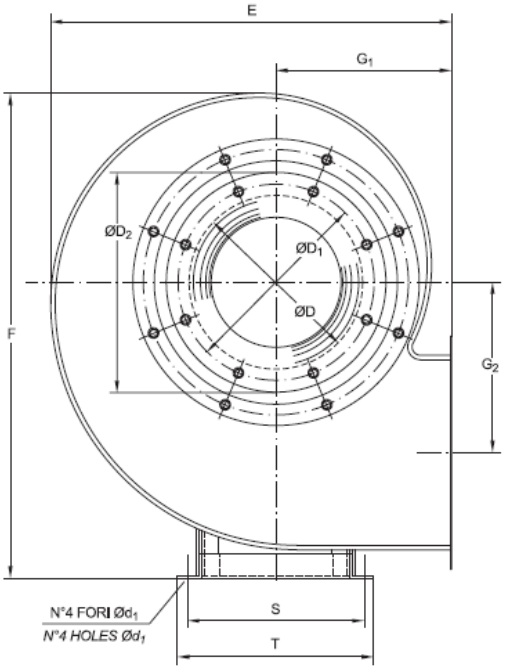


RP inlet protection net
GA intaking vibration-damping joint
RA intaking joint
RF inlet flanged fitting
CA inlet counter-flange
FL inlet filter
SA inlet silencer
SF throttle valve
RM outlet protection net
GM feed vibration-damping joint
CM outlet counter-flange
QT outlet square-round joint
SM outlet silencer
TS discharge plug
PI inspection door
BA motor support base

AI made of stainless steel AISI 304 to extract corrosive fumes
AS anti-spark version in accordance with ANIMA-COAER standards (table NV105)
HZ manufactured to work at Hz. 60
HT conveyed fluid temperature up to a maximum of 250oC (this version is made with longer shaft motor and extra cooling fan)
SB arrangement 5 with motor type B5 or B3/B5 without motor support base
TH high protection for use in tropical climate with high degree of humidity
TR belt drive, arrangement 9 & ATEX Capability

OVERALL DIMENSIONS

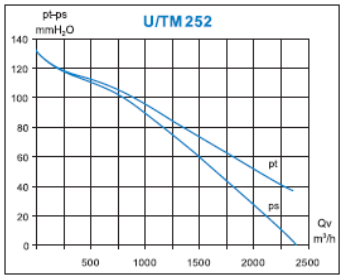


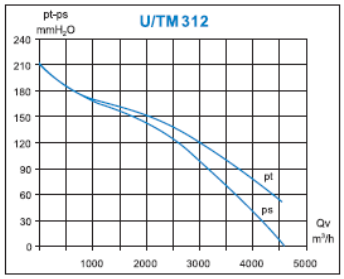


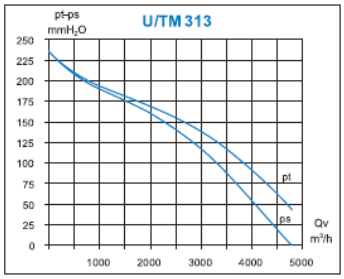
Ventilatore *Fan* Tipo/*Type*	A_1	B_1	A_2	B_2	A_3	B_3	t	t_1	N°x	øD	$øD_1$	$øD_2$	E	F	G_1	G_2	H	L	M	N	O	P	Q	R	S	T	$ød_1$	kg
U/TM 252	140	200	182	240	210	270	112	112	8	185	219	245	440	520	200	170	315	365	74	75	50	125	15	190	215	234	11	25
U/TM 312	180	250	219	292	250	320	2x112	112	10	230	265	290	545	670	243	228	400	450	103	96	60	137	18	215	245	274	12	43
U/TM 313																		480										48
U/TM 352	200	280	248	332	280	360	2x125	125	10	255	292	320	610	745	265	262	450	535	115	106	35	200	25	260	300	332	12	65
U/TM 353																		545										75
U/TM 402	224	315	273	366	305	395	2x125	125	10	285	332	365	680	825	298	288	500	630	128	120	45	250	25	320	360	392	12	112
U/TM 403																		670										125
U/TM 452	250	355	300	405	330	435	2x125	125	10	320	366	400	765	925	333	322	560	700	145	133	45	250	25	320	360	392	12	142
U/TM 453																		790			55	340	30	425	400	442	14	170

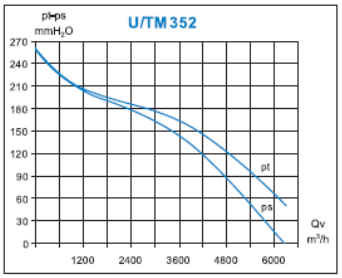
Dimensioni in mm — *Dimensions in mm*

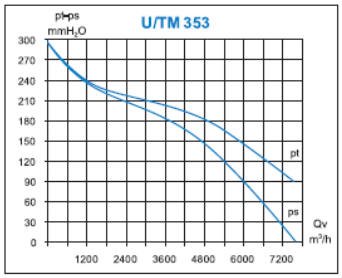
MODELS AND PERFORMANCES

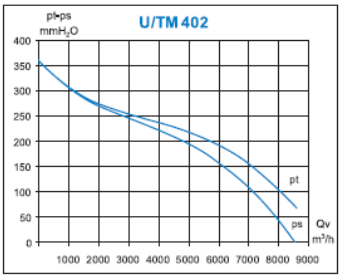


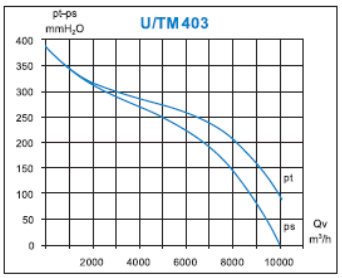


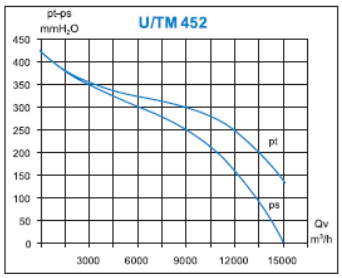


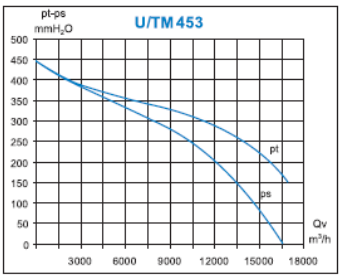












GENERAL FEATURES

The **U/DS** series double inlet fans are designed to convey air at **temperatures** of up to a maximum 80°C.

These fans are **used** in industrial plants requiring quick forced ventilation.

The steel sheet **impellers** with forward curved blades have been carefully balanced, both statically and dynamically, and are connected directly to the motor shaft.

Models **U/DS 142** and **202** are equipped with one double intake impeller, while models **U/DS 162** and **182** have two simple intake impellers.

The **motors** installed are asynchronous, three-phase or single-phase, 2 poles, with IP54 protection, designed for intermittent service.

ACCESSORIES

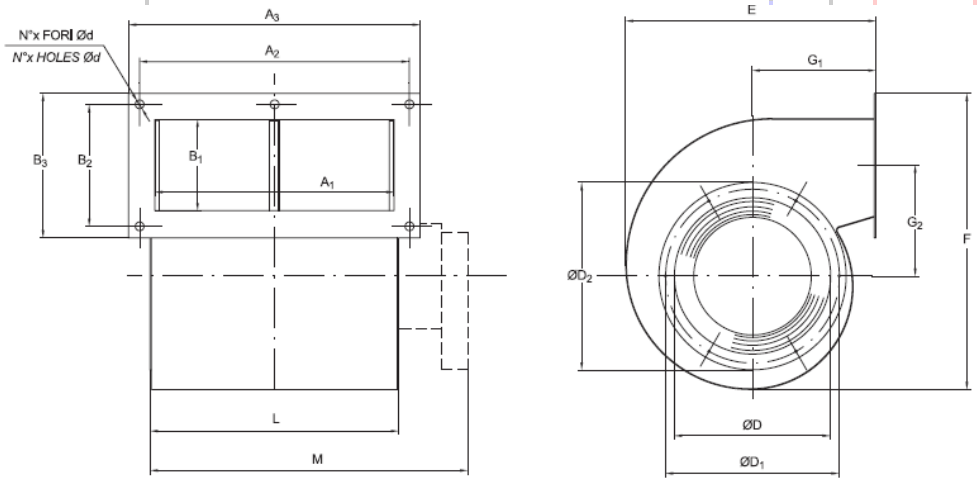
RP inlet protection net
RA intaking joint
RF inlet flanged fitting
CA inlet counter-flange

N.B.: For further information see accessories section

SPECIAL VERSIONS

HZ manufactured to work at Hz. 60

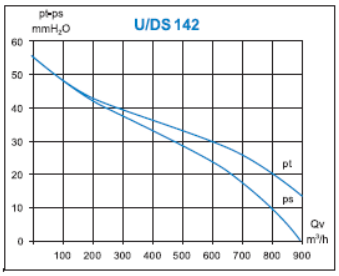
OVERALL DIMENSIONS

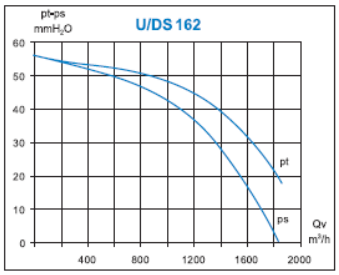


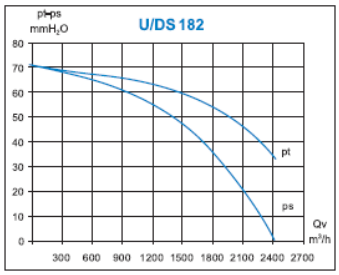
Ventilatore / *Fan* Tipo / *Type*	A_1	B_1	A_2	B_2	A_3	B_3	N°x	ød	øD	$øD_1$	$øD_2$	E	F	G_1	G_2	L	M	kg
U/DS 142	177	95	200	60	220	90	4	9	129	155	170	217	235	109	92	180	247	6
U/DS 162	275	105	310	140	335	166	5	10	169	200	215	288	340	142	125	284	-	10,5
U/DS 182	275	105	310	140	335	166	5	10	169	200	215	288	340	142	125	284	-	11
U/DS 202	275	105	310	140	335	166	5	10	189	220	242	288	340	142	125	286	-	13

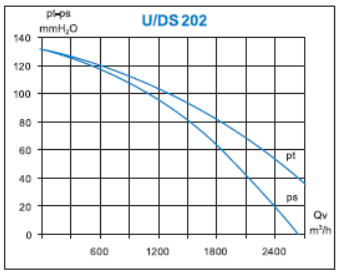
Dimensioni in mm *Dimensions in mm*

MODELS AND PERFORMANCES









GENERAL FEATURES

The **U/HF** series centrifugal fans are designed to take up air at **temperatures** of up to a maximum 80°C.

These fans are widely **used** to ventilate and cool electric motors. They are also equipped with an inlet filter to prevent any impurities in the air from depositing inside the motors.

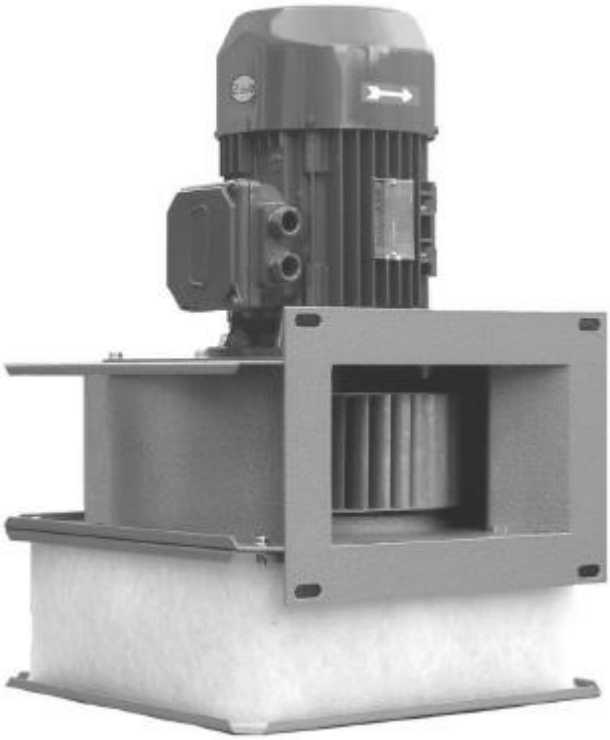
The strong steel sheet **spiral casings** are fitted with a securing flange on the outlet, they are supplied to rotate counter-clockwise LG (see discharge direction table).

The steel sheet **impellers** with forward curved blades have been perfectly balanced both statically and dynamically, and are connected directly to the motor shaft.

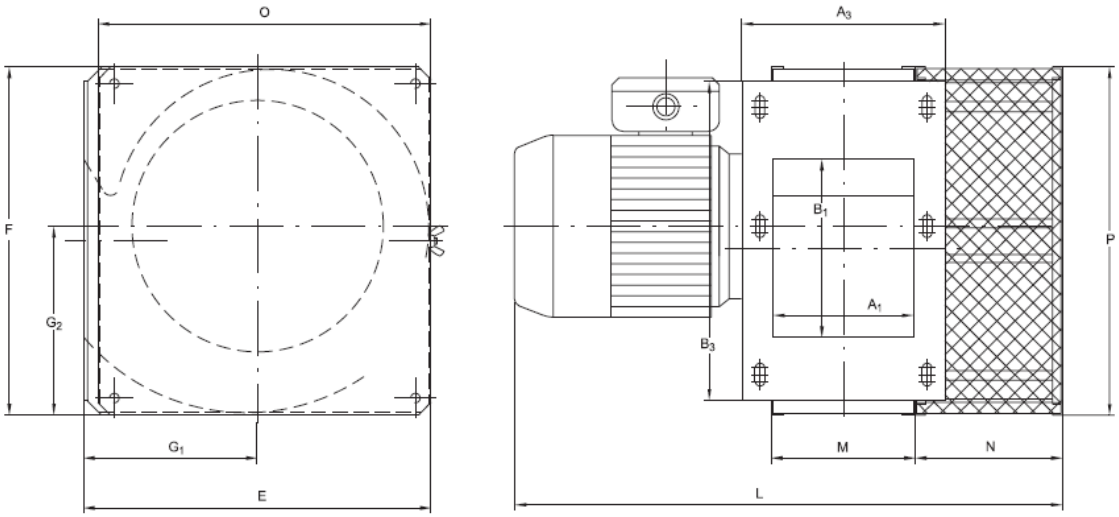
The **motors** are asynchronous, three-phase, 2 poles, B5, with IP55 protection, self-ventilated, designed for continuous service and are UNEL and IEC compliant.

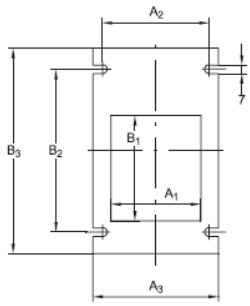
SPECIAL VERSIONS

HZ manufactured to work at Hz. 60
TH high protection for use in tropical climate with high degree of humidity

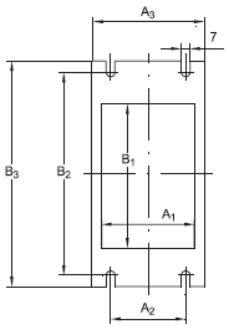


OVERALL DIMENSIONS

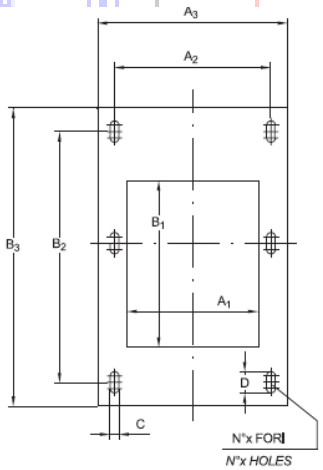




mod. U/HF 132 ÷ 142



mod. U/HF 162

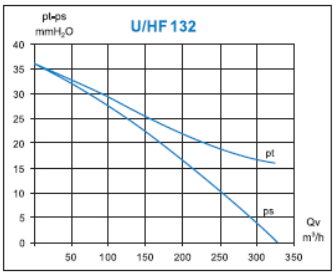


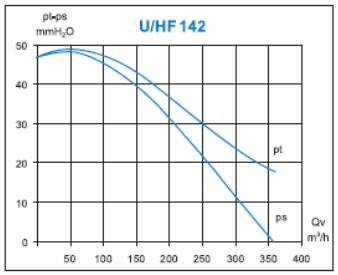
mod. U/HF 182 ÷ 282

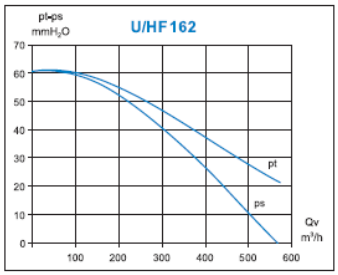
Ventilatore *Fan* Tipo/*Type*	A_1	B_1	A_2	B_2	A_3	B_3	N°x	C	D	E	F	G_1	G_2	L	M	N	O	P	kg
U/HF 132	72	84	85	130	100	164	-	-	-	181	166	96	85	352	75	100	163	163	8
U/HF 142	72	84	85	130	100	164	-	-	-	202	200	100	109	325	75	72	192	198	9
U/HF 162	74	115	60	162	90	180	-	-	-	221	220	116	120	357	76	92	207	217	9,6
U/HF 182	105	133	125	200	152	238	4	7	17	260	260	130	141	410	108	110	248	260	12
U/HF 222	115	210	164	255	180	284	4	9	19	318	316	159	175	485	119	132	300	312	20
U/HF 232	132	240	195	280	215	320	4	10	25	375	368	193	209	550	136	133	360	368	32
U/HF 282	160	235	210	302	225	340	6	10	20	430	411	192	250	650	165	164	375	410	46

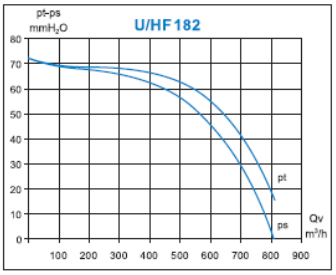
Dimensioni in mm *Dimensions in mm*

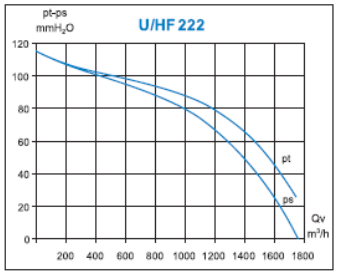
MODELS AND PERFORMANCES

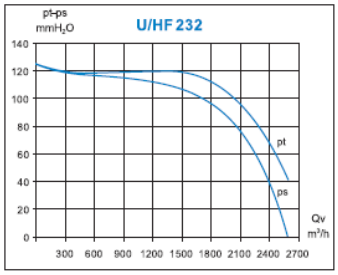


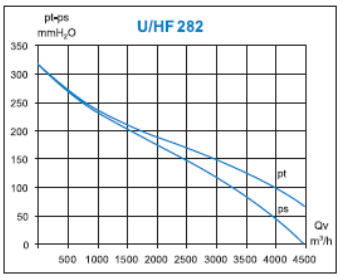












GENERAL FEATURES

The **U/CB** series centrifugal fans are designed to take up clean or slightly dusty air at **temperatures** of up to a maximum 80°C.

These fans are **used** for ventilation and air conditioning plants and generally in industrial applications requiring high flow rates.

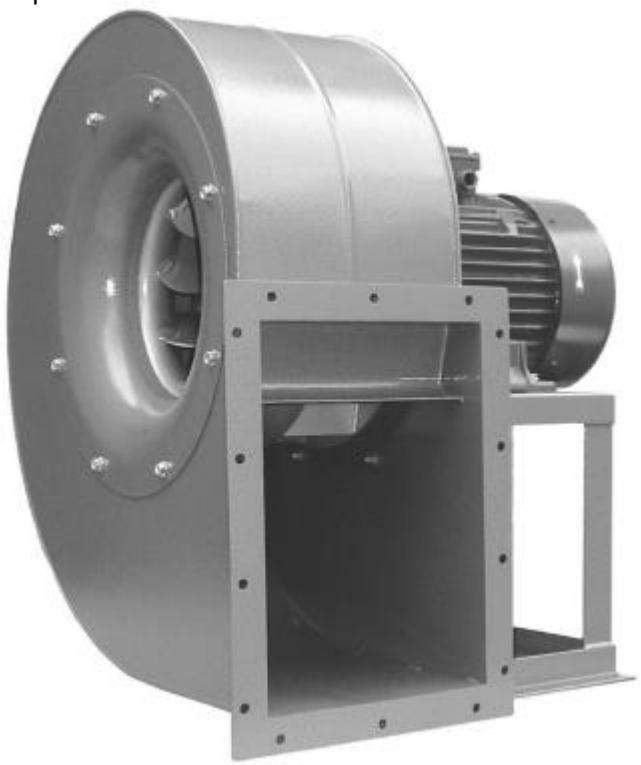
The strong steel sheet **spiral casings** are rimmed and welded. These fans are have a base for the motor and the discharge angle can be regulated in 45° steps by rotating either clockwise RD or counter-clockwise LG (see discharge direction table).

The welded steel sheet **impellers** with backward-curved blades have been carefully balanced, both statically and dynamically.

The **motors** installed are asynchronous, three-phase, B3, with IP55 protection, self-ventilated, designed for continuous service and are UNEL and IEC compliant.

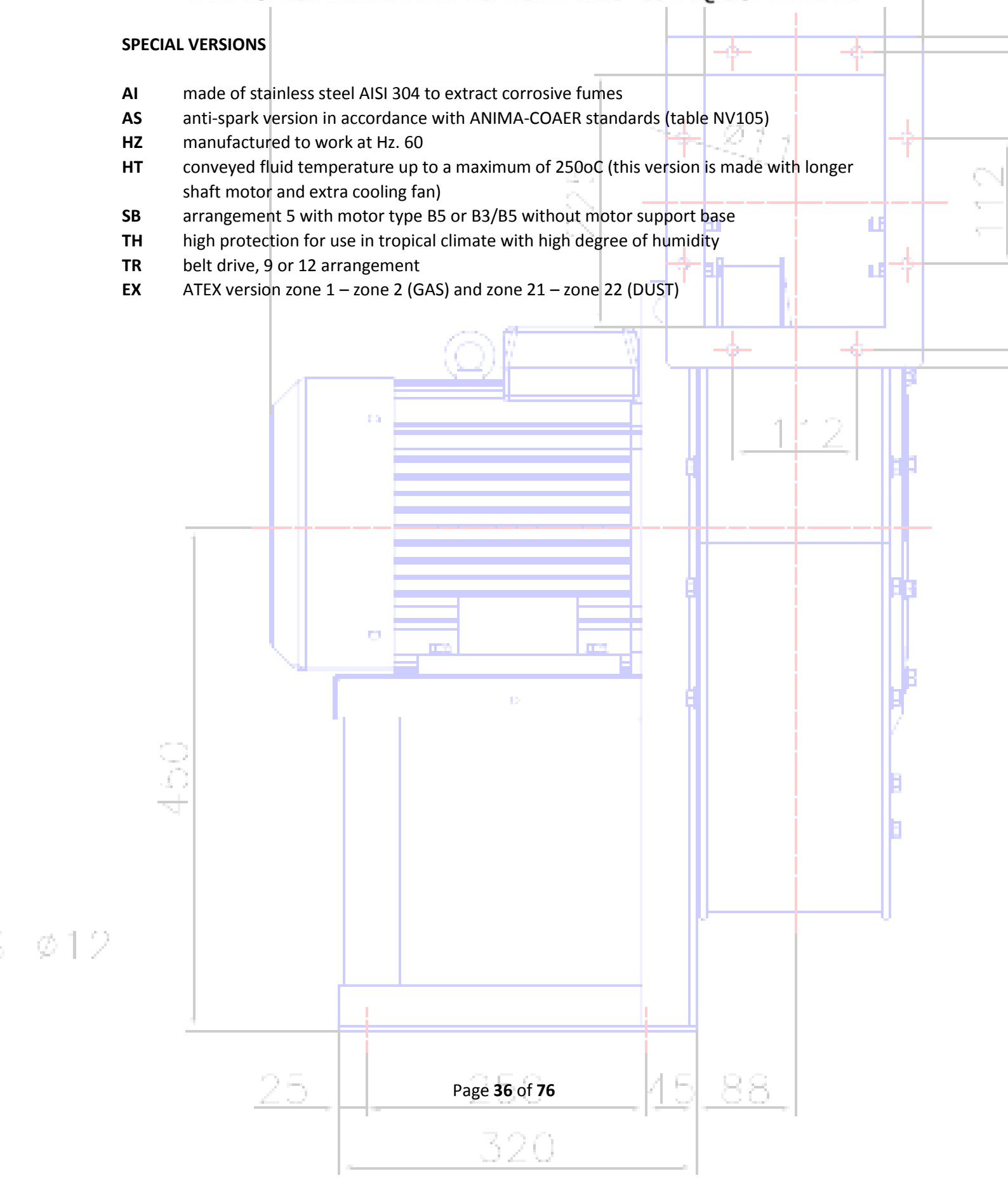
ACCESSORIES

RP	inlet protection net
GA	intaking vibration-damping joint
RA	intaking joint
RF	inlet flanged fitting
CA	inlet counter-flange
FL	inlet filter
SF	throttle valve
SD	Dapo flow regulator
RM	outlet protection net
GM	feed vibration-damping joint
CM	outlet counter-flange
SM	outlet silencer
TS	discharge plug
PI	inspection door
AV	vibration dampers



SPECIAL VERSIONS

AI	made of stainless steel AISI 304 to extract corrosive fumes
AS	anti-spark version in accordance with ANIMA-COAER standards (table NV105)
HZ	manufactured to work at Hz. 60
HT	conveyed fluid temperature up to a maximum of 250oC (this version is made with longer shaft motor and extra cooling fan)
SB	arrangement 5 with motor type B5 or B3/B5 without motor support base
TH	high protection for use in tropical climate with high degree of humidity
TR	belt drive, 9 or 12 arrangement
EX	ATEX version zone 1 – zone 2 (GAS) and zone 21 – zone 22 (DUST)



TEQNIVENT LIMITED
ENVIRONMENTAL SYSTEMS & EQUIPMENT

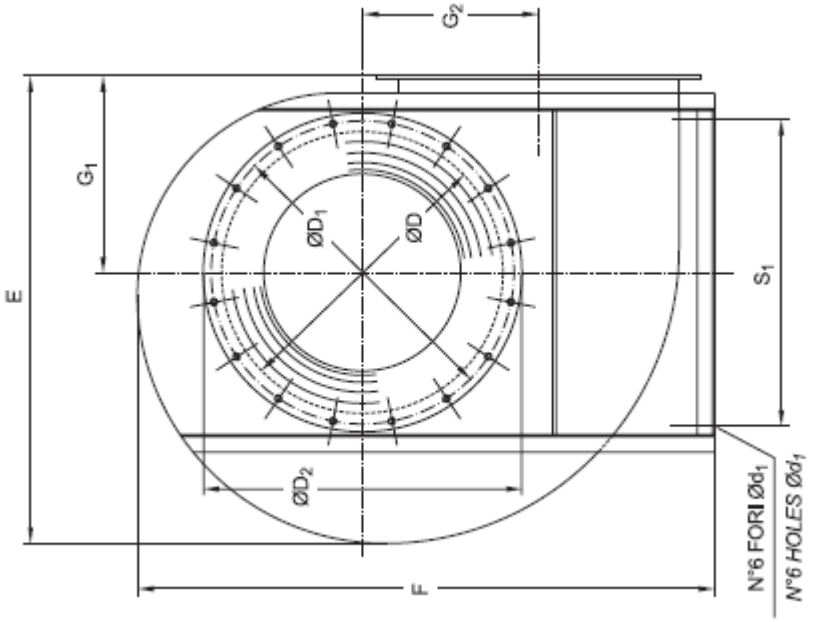
OVERALL DIMENSIONS

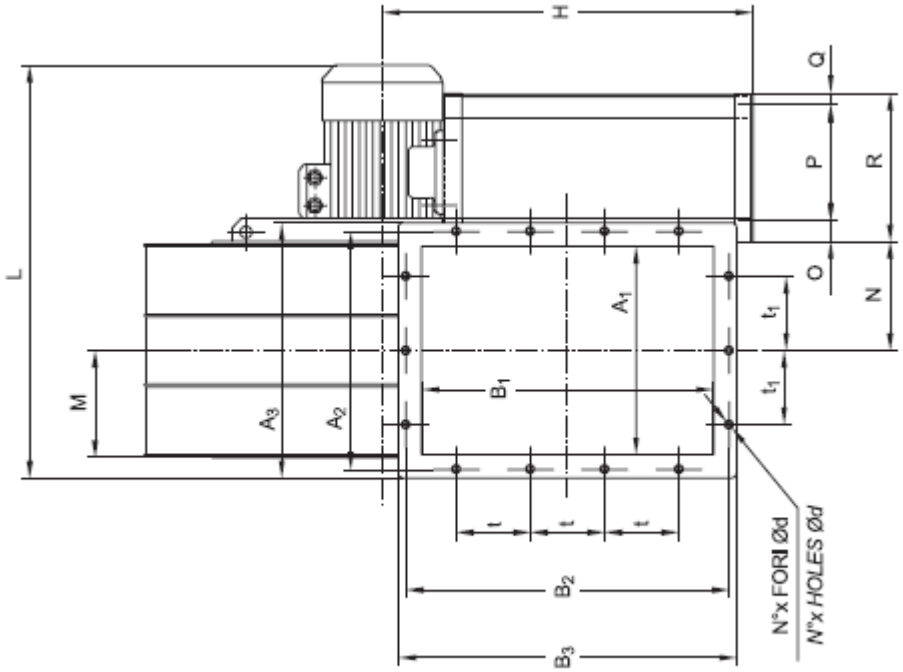
Ventilatore Fan Tipo/Type	A_1	B_1	A_2	B_2	A_3	B_3	t	t_1	N°x	ød	øD	$øD_1$	$øD_2$	E	F	G_1	G_2	H	H_1	H_2	L	M	N	O	P	Q	R	S	S_1	T	U	V	W	Y	Z	$ød_1$	kg
U/CB 352	250	355	300	405	330	435	2x125	125	10	11	360	405	440	610	740	265	225	450	450	450	580	130	130	60	137	18	215	245	-	274	-	-	-	-	12	54
U/CB 353																					615			35	200	25	260	300		332						68
U/CB 354																					500			50	125	15	190	215		234						42
U/CB 355																					510			50	125	15	190	215		234					11	45
U/CB 402	280	400	332	448	360	480	3x125	2x125	14	11	405	448	485	690	825	300	250	500	500	500	650	145	148	35	200	25	260	300	-	332	-	-	-	-	12	88
U/CB 403																					710			45	250	25	320	360		392					12	118
U/CB 404																					540			50	125	15	190	215		234					11	60
U/CB 452	315	450	366	497	395	530	3x125	2x125	14	11	455	497	535	770	925	335	280	560	560	560	785	163	165	45	250	25	320	360	-	392	-	-	-	-	12	140
U/CB 453																					875			55	340	30	425	400		442					14	175
U/CB 454																					595			50	125	15	190	215		234					11	72
U/CB 455																					620			60	137	18	215	245		274					12	78
U/CB 502	355	500	405	551	435	580	3x125	2x125	14	11	505	551	585	840	1030	355	315	630	630	630	930	183	185	55	340	30	425	400	-	442	-	-	-	-	14	200
U/CB 503																					975			55	340	30	425	400		442						217
U/CB 504																					700			60	137	18	215	245		274					12	95
U/CB 505																					735			35	200	25	260	300		332						107
U/CB 506																					635			50	125	15	190	215		234					11	84
U/CB 507																					650			50	125	15	190	215		234						87
U/CB 564	400	560	464	629	500	660	3x160	2x160	14	14	585	629	665	950	1170	397	355	710	710	710	775	205	208	35	250	25	320	360	-	332	-	-	-	-	12	125
U/CB 565																					785			35	200	25	260	300		332						136
U/CB 566																					715			60	137	18	215	245		274						110
U/CB 567																					740			60	137	18	215	215								115
U/CB 634	450	630	513	698	550	730	3x160	2x160	14	14	655	698	735	1065	1310	450	400	800	800	800	930	230	233	45	250	25	320	360	-	392	-	-	-	-	12	190
U/CB 635																					930			45	250	25	320	360		392						202
U/CB 636																					825			35	200	25	260	300		332						150
U/CB 637																					835			35	200	25	260	300		332						160
U/CB 714	500	710	567	775	600	810	4x160	2x160	16	14	715	775	815	1200	1500	500	450	900	500	710	1075	256	261	-	340	30	425	400	800	442	25	985	510	50	590	14	335
U/CB 715																					1120			-	340	30	425	400		442		985			590		350
U/CB 716																					990			-	250	25	320	360		392		880			580	12	280
U/CB 717																					990			-	250	25	320	360		392		880			580		295
U/CB 804	560	800	639	871	680	920	3x200	2x200	14	14	805	861	905	1330	1650	560	500	800	560	800	1225	286	291	-	370	35	470	470	870	930	30	1096	566	60	661	17	455
U/CB 805																					1225			-	370	35	470	470				1096			661		440
U/CB 806																					1050			-	250	25	320	320				946			641		345
U/CB 807																					1140			-	340	30	425	425				1051			651		400
U/CB 904	630	900	708	968	750	1020	4x200	3x200	18	14	905	958	1005	1480	1770	630	535	900	630	900	1425	322	326	-	425	40	550	550	970	1030	30	1246	636	60	751	19	740
U/CB 905																					1450			-	425	40	550	550				1246			751		765
U/CB 906																					1260			-	340	30	425	425				1121			721		500
U/CB 907																					1300			-	370	35	470	470				1166			731		560
U/CB 1004	710	1000	785	1077	830	1120	4x200	3x200	18	14	1005	1067	1105	1650	2000	710	610	1000	710	1180	1635	362	366	-	460	45	600	600	1060	1130	30	1376	716	60	841	19	990
U/CB 1005																					1685			-	500	50	650	650				1426			846		1140
U/CB 1006																					1485			-	385	40	500	500				1276			821		825
U/CB 1007																					1485			-	385	40	500	500				1276			821		840

Dimensioni in mm

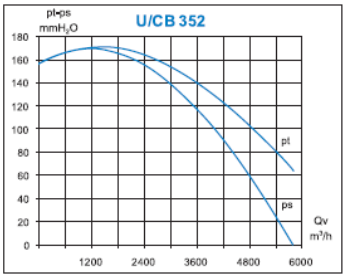
Dimensions in mm

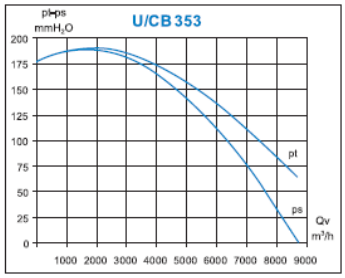
TEQNIVENT LIMITED
ENVIRONMENTAL SYSTEMS & EQUIPMENT

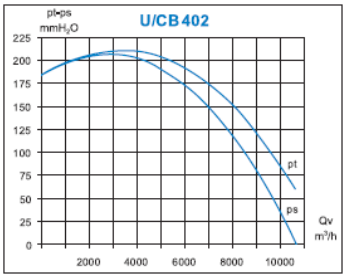


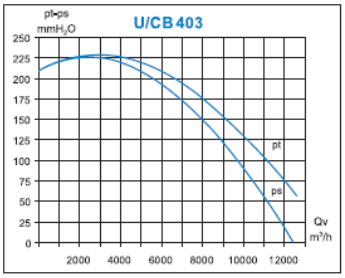


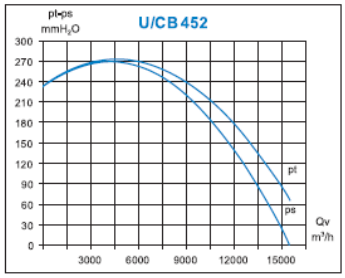
MODELS AND PERFORMANCES

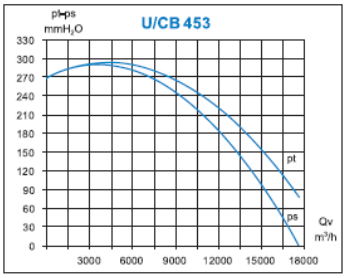


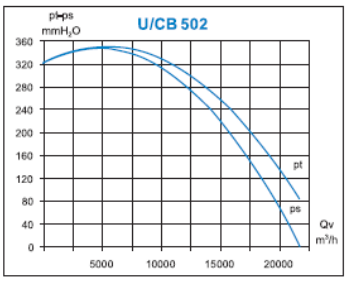


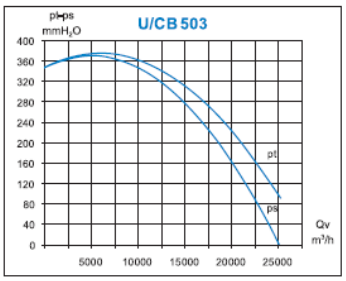


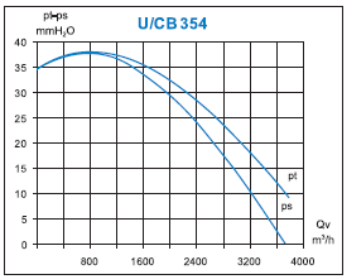


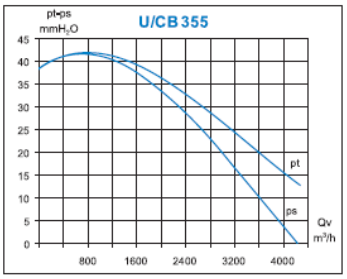


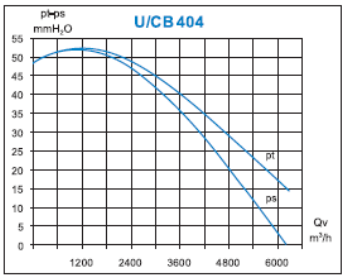


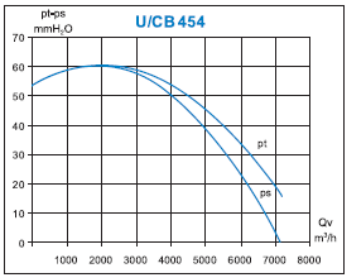


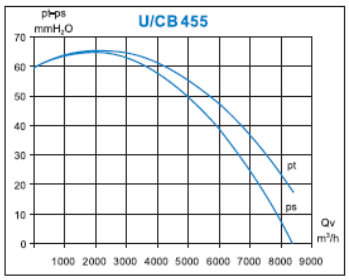


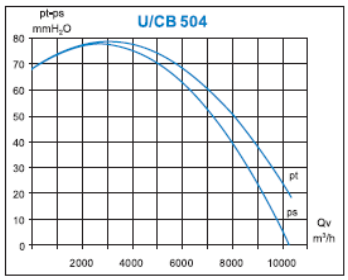


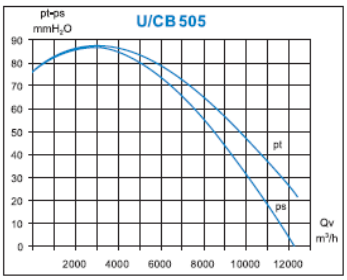


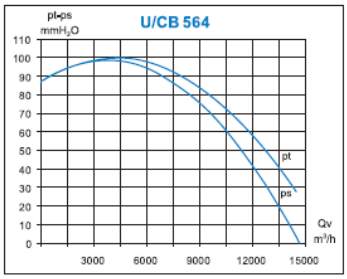








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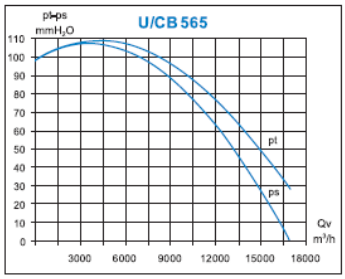
100
90
80
70
60
50
40
30
20
10
0
pt
ps
Qv m³/h
3000 6000 9000 12000 15000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100
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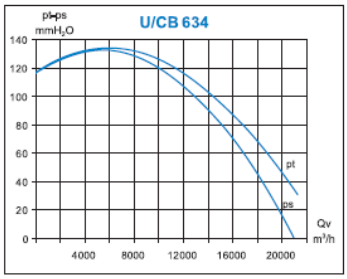
3000 6000 9000 12000 15000 18000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0
pt
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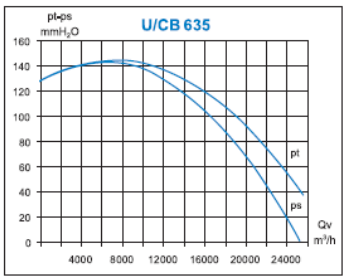
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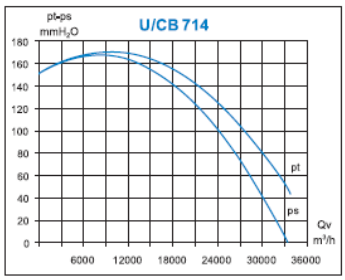
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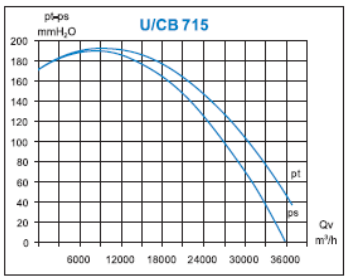
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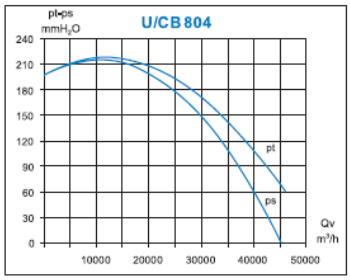
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150
120
90
60
30
0
pt
ps
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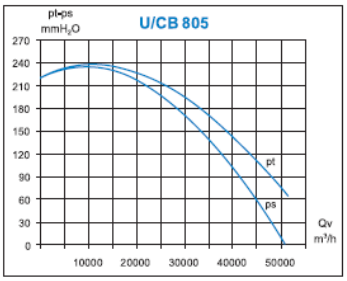
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60
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ps
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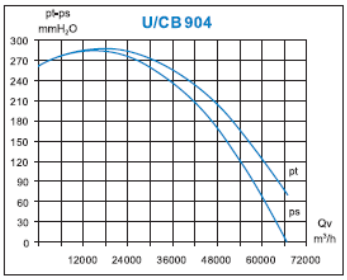
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180
150
120
90
60
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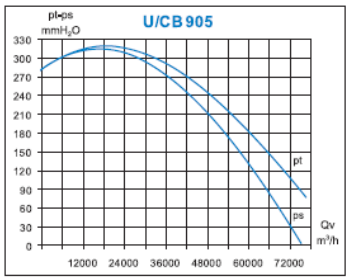
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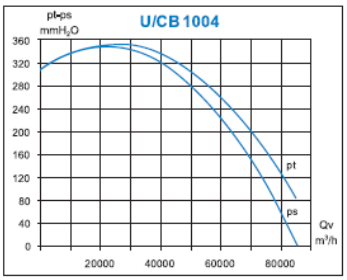
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120
80
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ps
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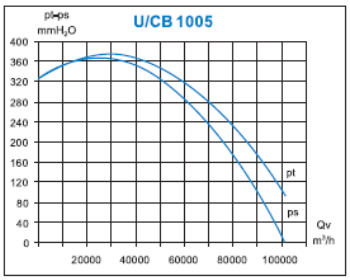
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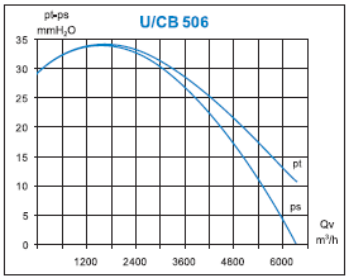
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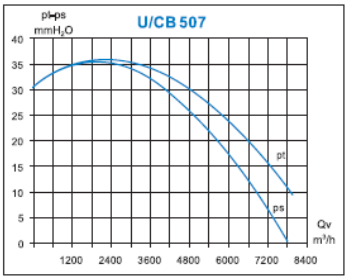
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Qv m³/h
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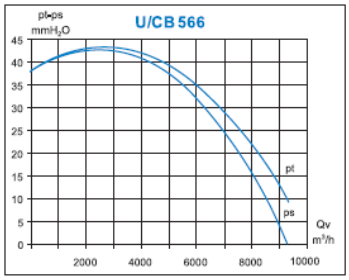
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Qv m³/h
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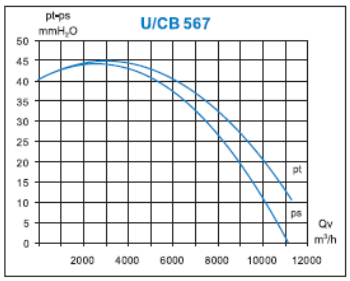
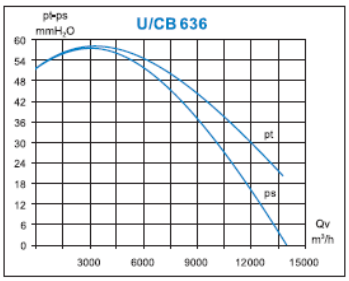
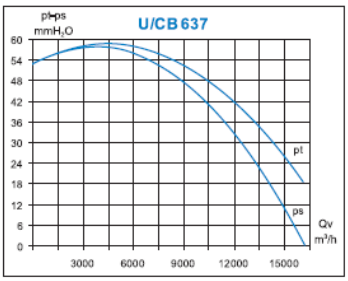
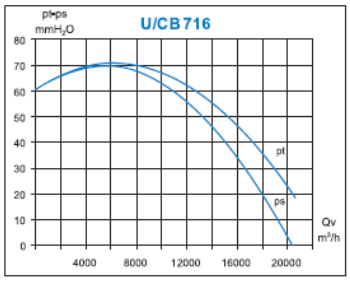
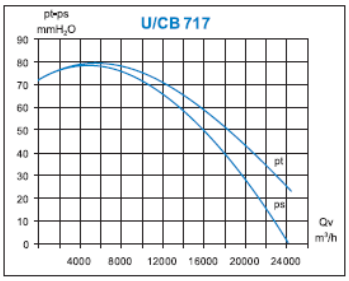
TEQNIVENT LIMITED
ENVIRONMENTAL SYSTEMS & EQUIPMENT

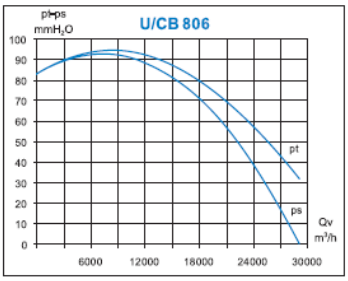


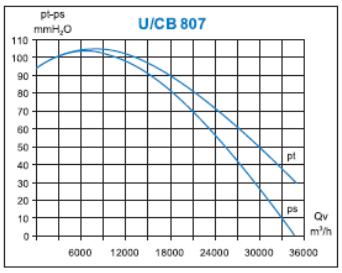


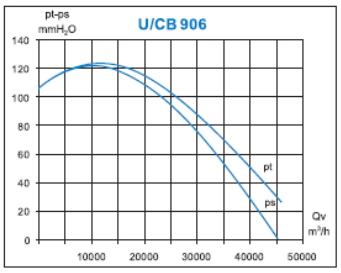


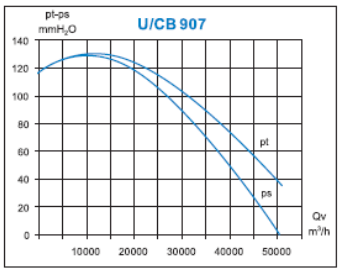


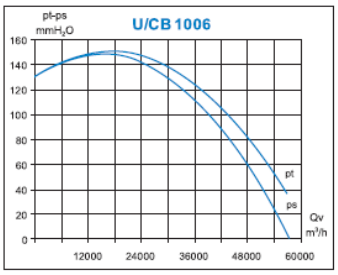


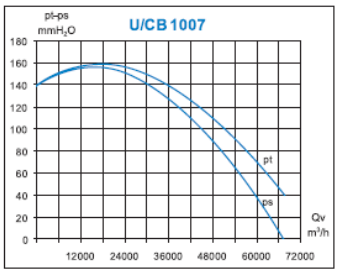












GENERAL FEATURES

The **U/PB** series centrifugal fans are designed to take up air and convey air, even if dusty, at **temperatures** of up to a maximum 80°C.

These fans are **used** in industrial plants requiring medium-to-high pressures; furthermore they can also be used to convey solid materials, except strings, mixed with air.

The strong steel sheet **spiral casings** are rimmed and welded. These fans also have a base for the motor and the discharge angle can be regulated in 45° steps by rotating either clockwise RD or counter-clockwise LG (see discharge direction table).

The strong welded steel sheet **impellers** with high performance, backward-curved blades, have been carefully balanced both statically and dynamically.

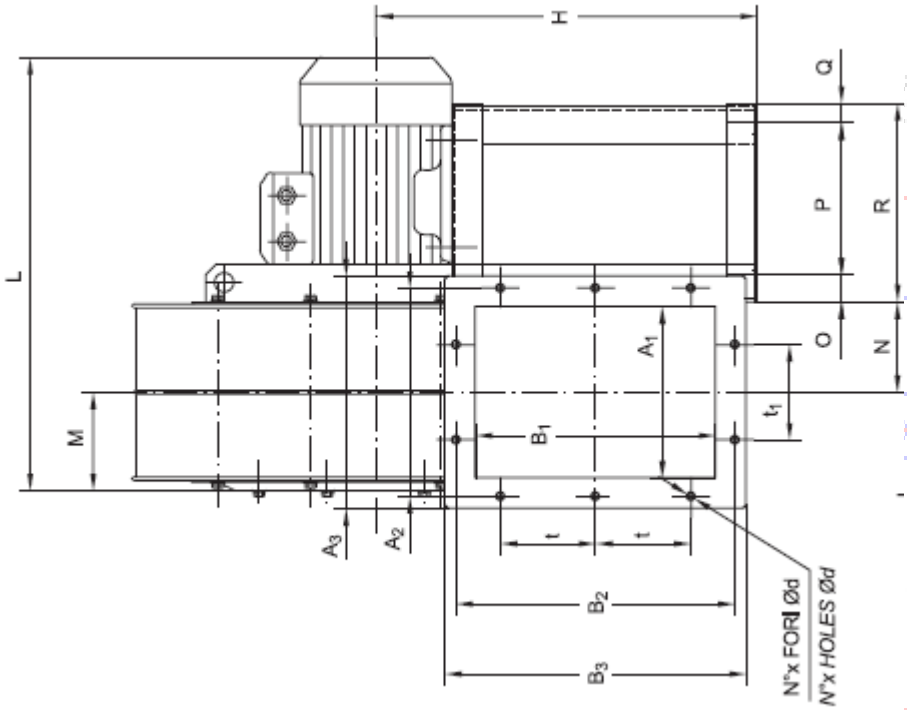
The **motors** installed are asynchronous, three-phase or single-phase, 2 or 4 poles, B3, with IP55 protection, self-ventilated, designed for continuous service and are UNEL and IEC compliant.

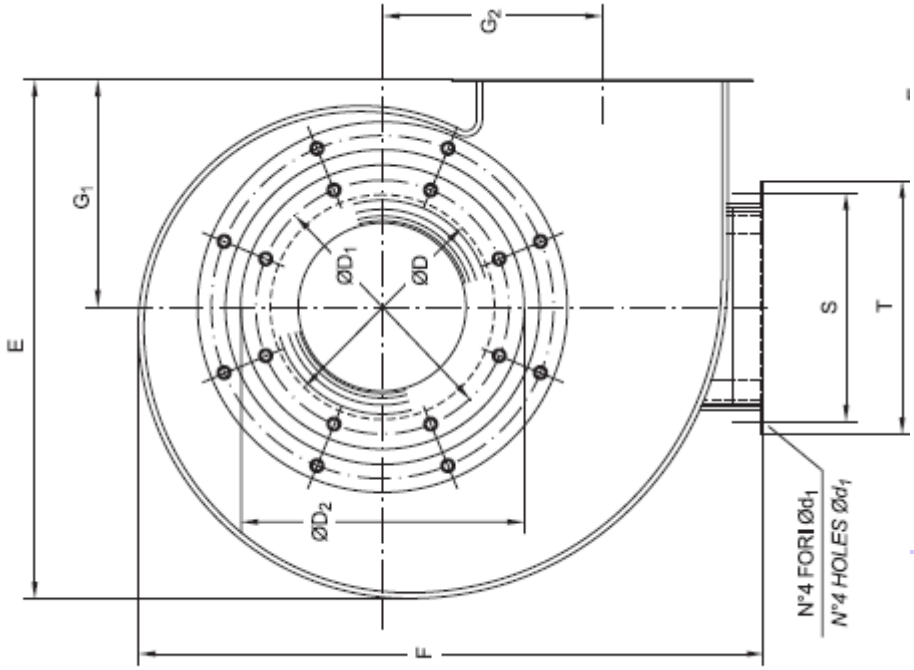
ACCESSORIES

RP inlet protection net
GA intaking vibration-damping joint
RA intaking joint
RF inlet flanged fitting
CA inlet counter-flange
FL inlet filter
SA inlet silencer
SF throttle valve
SD Dapo flow regulator
RM outlet protection net
GM feed vibration-damping joint
CM outlet counter-flange
QT outlet square-round joint
SM outlet silencer
TS discharge plug
PI inspection door
AV vibration dampers

AI made of stainless steel AISI 304 to extract corrosive fumes
AS anti-spark version in accordance with ANIMA-COAER standards (table NV105)
HZ manufactured to work at Hz. 60
HT conveyed fluid temperature up to a maximum of 250oC (this version is made with longer shaft motor and extra cooling fan)
SB arrangement 5 with motor type B5 or B3/B5 without motor support base
TH high protection for use in tropical climate with high degree of humidity
TR belt drive, 9 or 12 arrangement
EX ATEX version zone 1 – zone 2 (GAS) and zone 21 – zone 22 (DUST)

OVERALL DIMENSIONS



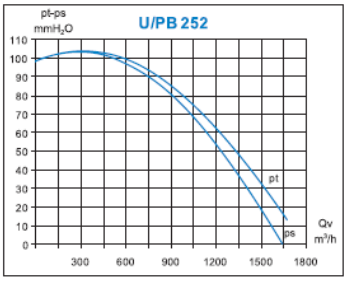


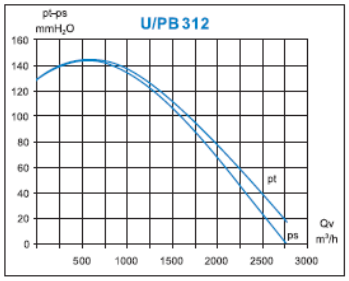
Ventilatore / *Fan* Tipo/*Type*	A_1	B_1	A_2	B_2	A_3	B_3	t	t_1	N°x	ød	øD	$øD_1$	$øD_2$	E	F	G_1	G_2	H	H_1	H_2	L	M	N	O	P	Q	R	S	T	U	V	W	Y	Z	$ød_1$	kg
U/PB 252	140	200	182	240	210	270	112	112	8	11	185	219	245	440	520	200	170	315	315	315	340	74	75	50	125	15	190	215	234	-	-	-	-	-	11	23
U/PB 312	180	250	219	292	250	320	2x112	112	10	11	230	265	290	545	670	243	228	400	400	400	415	103	96	50	125	15	190	215	234	-	-	-	-	-	11	34
U/PB 313																					430															38
U/PB 352	200	280	248	332	280	360	2x125	125	10	11	255	292	320	610	745	265	262	450	450	450	475	115	106	60	137	18	215	245	274	-	-	-	-	-	12	48
U/PB 353																					500															54
U/PB 402	224	315	273	366	305	395	2x125	125	10	11	285	332	365	680	825	298	288	500	500	500	560	128	120	35	200	25	260	300	332	-	-	-	-	-	12	72
U/PB 403																					570															85
U/PB 452	250	355	300	405	330	435	2x125	125	10	11	320	366	400	765	925	333	322	560	560	560	660	145	133	45	250	25	320	360	392	-	-	-	-	-	12	125
U/PB 453																					700															135
U/PB 502	280	400	332	448	360	480	3x125	2x125	14	11	360	405	440	850	1030	368	357	630	630	630	760	161	148	45	250	25	320	360	392	-	-	-	-	-	12	155
U/PB 503																					830			55	340	30	425	400	442						14	185
U/PB 562	315	450	366	497	395	530	3x125	2x125	14	11	405	448	485	950	1165	400	410	710	710	710	860	180	166	55	340	30	425	400	442	-	-	-	-	-	14	225
U/PB 563																					900															240
U/PB 634	355	500	405	551	435	580	3x125	2x125	14	11	455	497	535	1080	1310	450	465	630	450	800	830	200	183	-	250	25	320	710	760	25	730	360	50	430	17	240
U/PB 714	400	560	464	629	500	660	3x160	2x160	14	14	505	551	585	1210	1480	500	525	710	500	900	875	225	205	-	250	25	320	800	850	25	775	405	50	475	17	356
U/PB 804	450	630	513	698	550	730	3x160	2x160	14	14	585	629	665	1340	1650	560	585	800	560	1000	1025	250	229	-	340	30	425	870	930	30	940	455	60	540	17	475
U/PB 805																					1070															500
U/PB 904	500	710	567	775	600	810	4x160	2x160	16	14	655	698	735	1480	1770	630	630	900	630	1060	1160	280	254	-	370	35	470	970	1030	30	1036	506	60	601	19	640
U/PB 905																					1265				385	40	500				1066			611		740
U/PB 1004	560	800	639	871	680	920	3x200	2x200	14	14	715	775	815	1660	1980	710	710	1000	710	1180	1350	315	285	-	425	40	550	1060	1130	30	1178	568	60	683	21	935
U/PB 1005																					1375															965

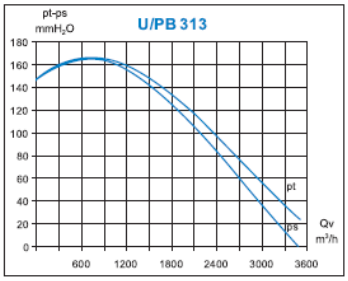
Dimensioni in mm

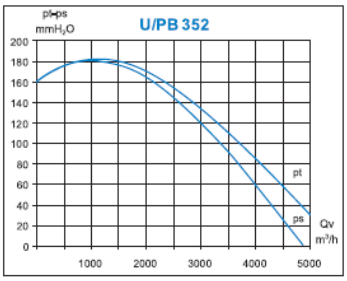
Dimensions in mm

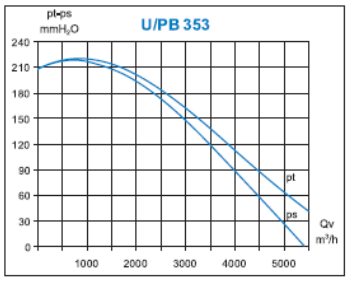
MODELS AND PERFORMANCES

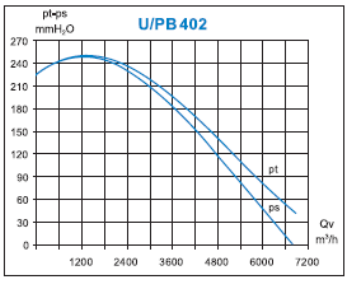


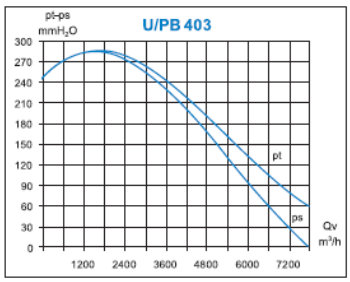


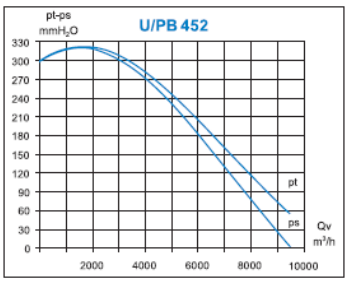


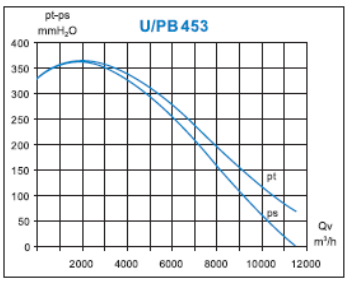


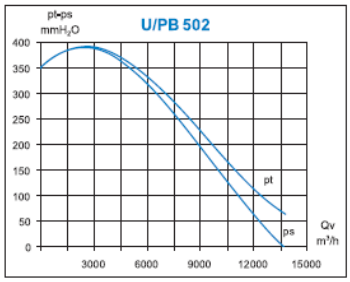


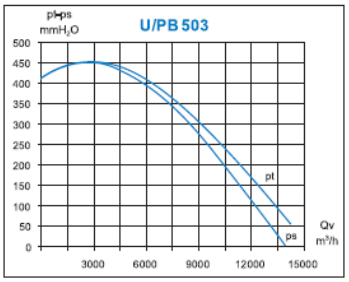


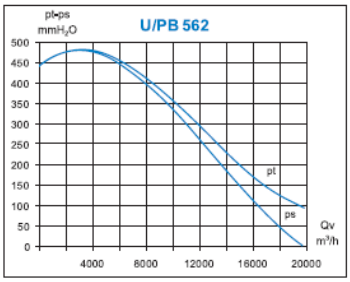


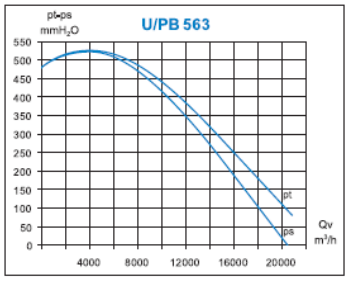


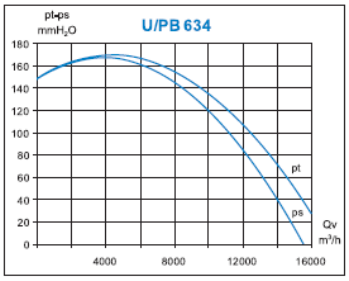


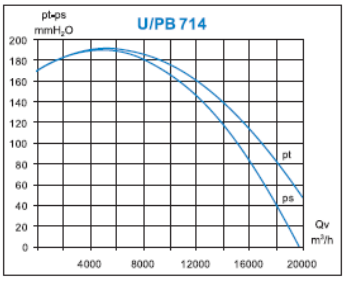




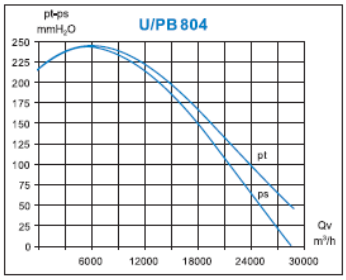


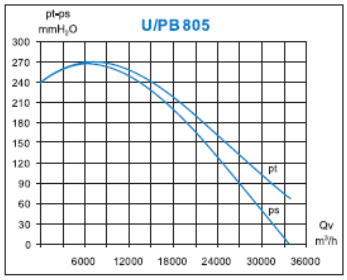


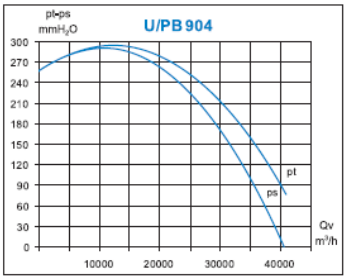


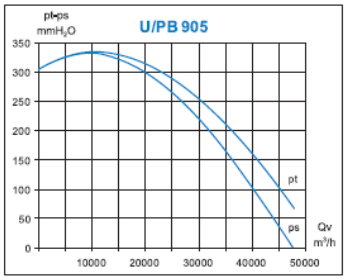


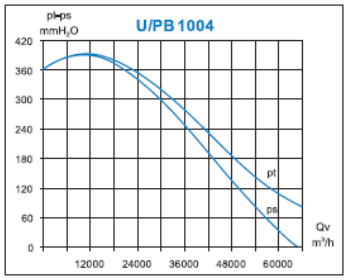
TEQNIVENT LIMITED
ENVIRONMENTAL SYSTEMS & EQUIPMENT

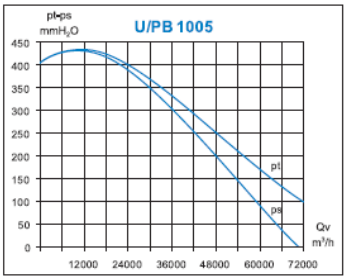


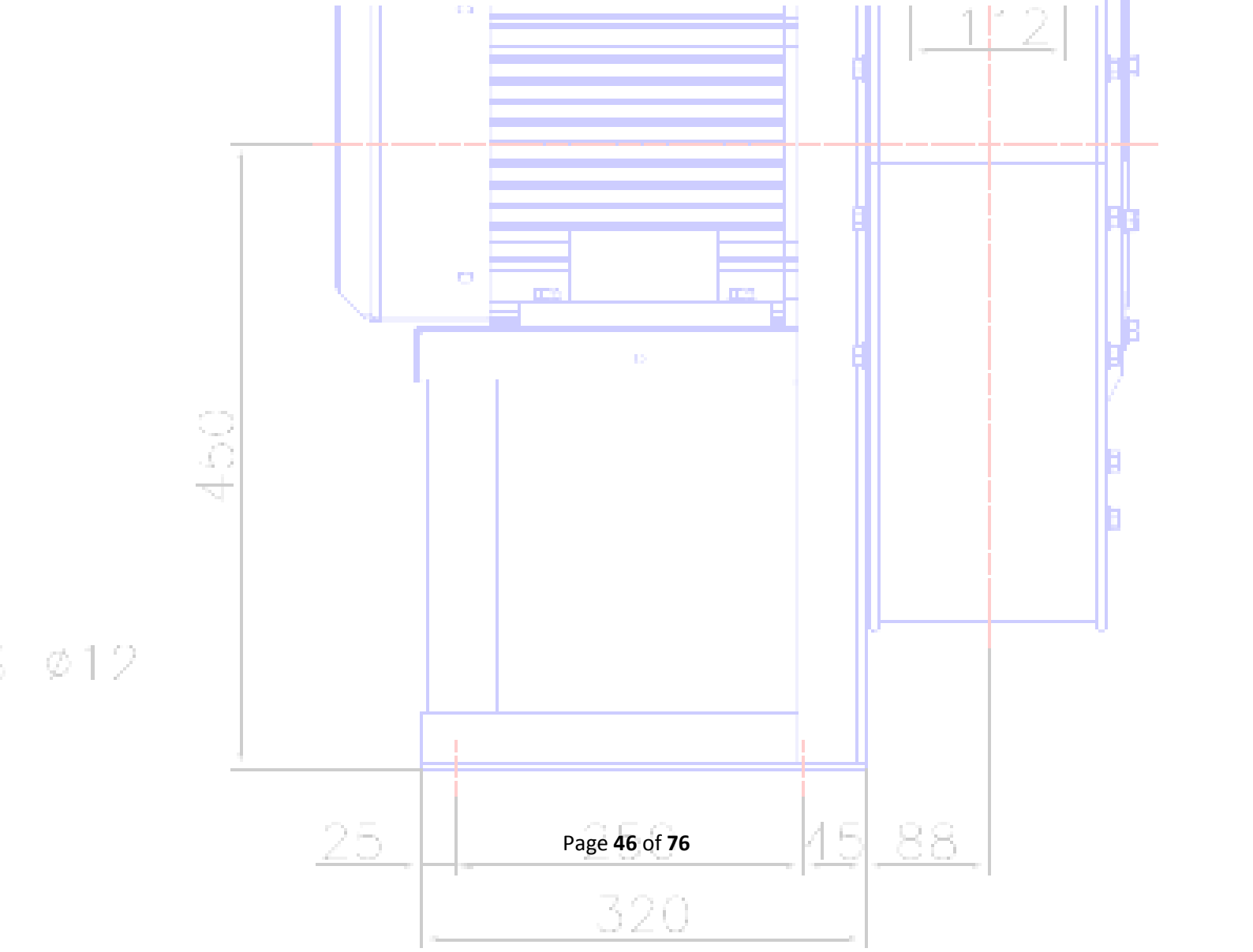












GENERAL FEATURES

The **U/PBM** series centrifugal fans are designed to take up air, even if dusty, at **temperatures** of up to a maximum 80°C.

They are generally **used** in the industrial plants requiring medium-to-high pressure; they can also be used to convey solid materials, except strings, mixed with air.

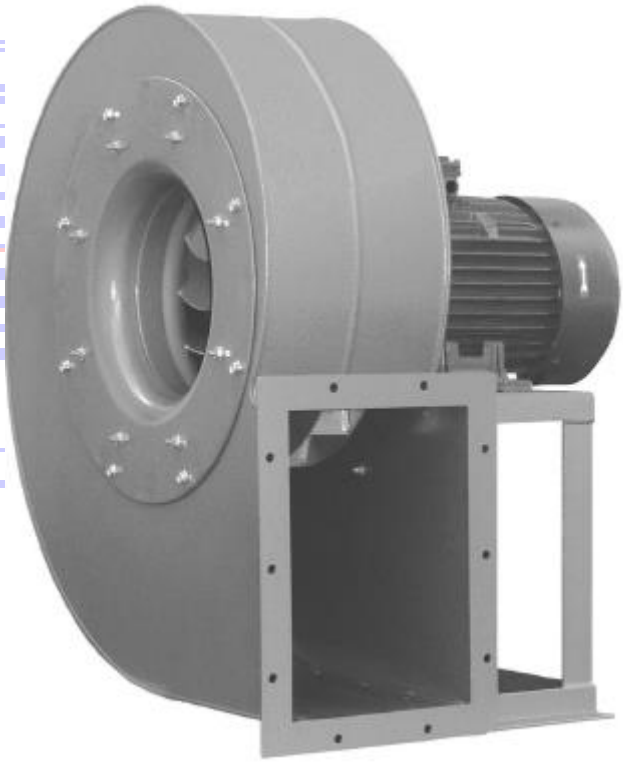
The strong steel sheet **spiral casings** are rimmed and welded. These fans also have a motor support base and the discharge angle can be adjusted in 45° steps by rotating either clockwise RD or counter-clockwise LG (see discharge direction table).

The steel sheet **impellers** with high performance, backward-curved blades, have been balanced both statically and dynamically.

The **motors** installed are asynchronous, three-phase or single-phase, 2 or 4 poles, B3 with IP55 protection, self-ventilated, designed for continuous service and are UNEL and IEC compliant.

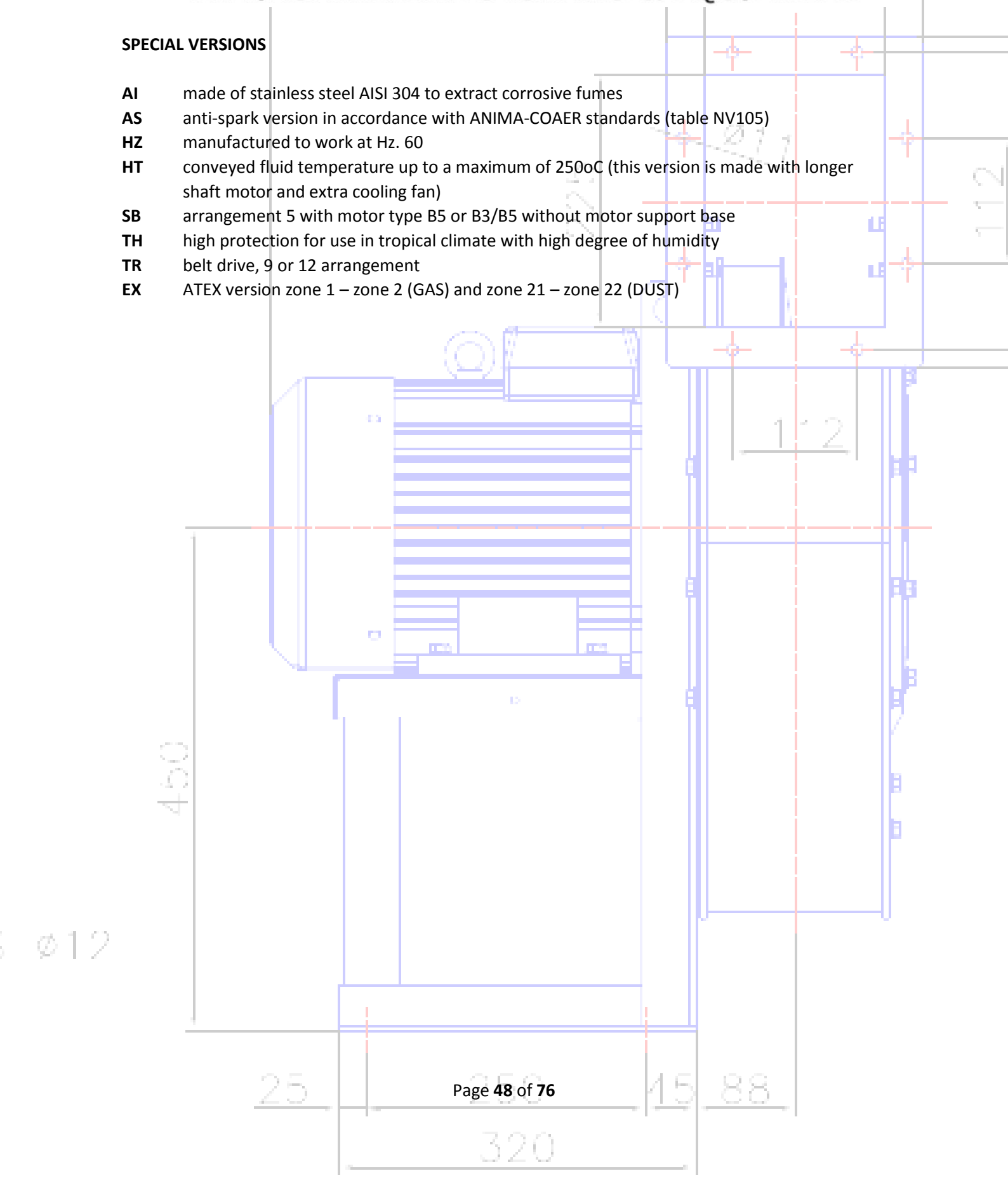
ACCESSORIES

RP	inlet protection net
GA	intaking vibration-damping joint
RA	intaking joint
RF	inlet flanged fitting
CA	inlet counter-flange
FL	inlet filter
SA	inlet silencer
SF	throttle valve
SD	Dapo flow regulator
RM	outlet protection net
GM	feed vibration-damping joint
CM	outlet counter-flange
QT	outlet square-round joint
SM	outlet silencer
TS	discharge plug
PI	inspection door
AV	vibration dampers

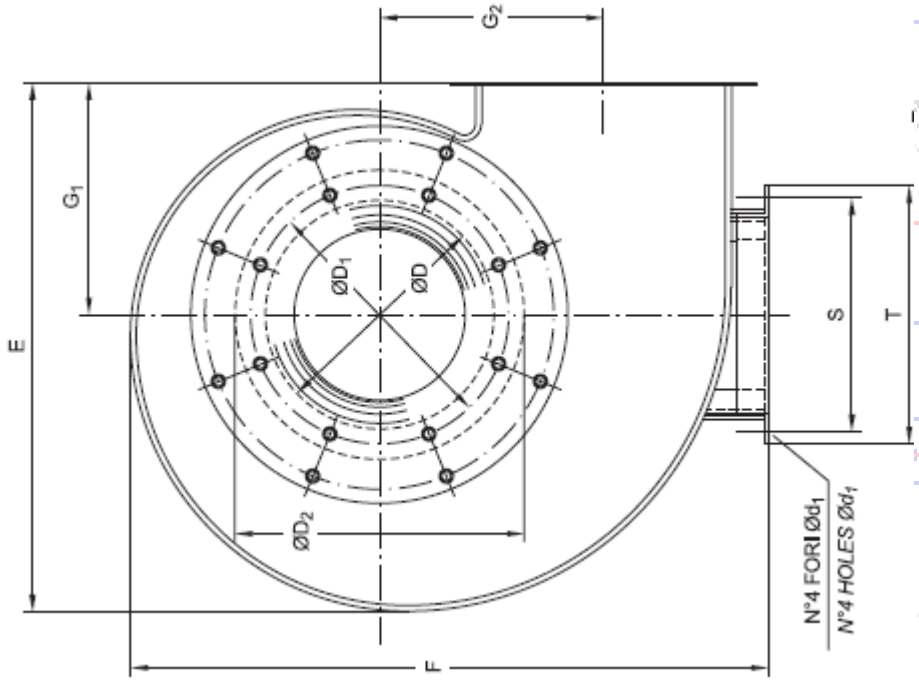


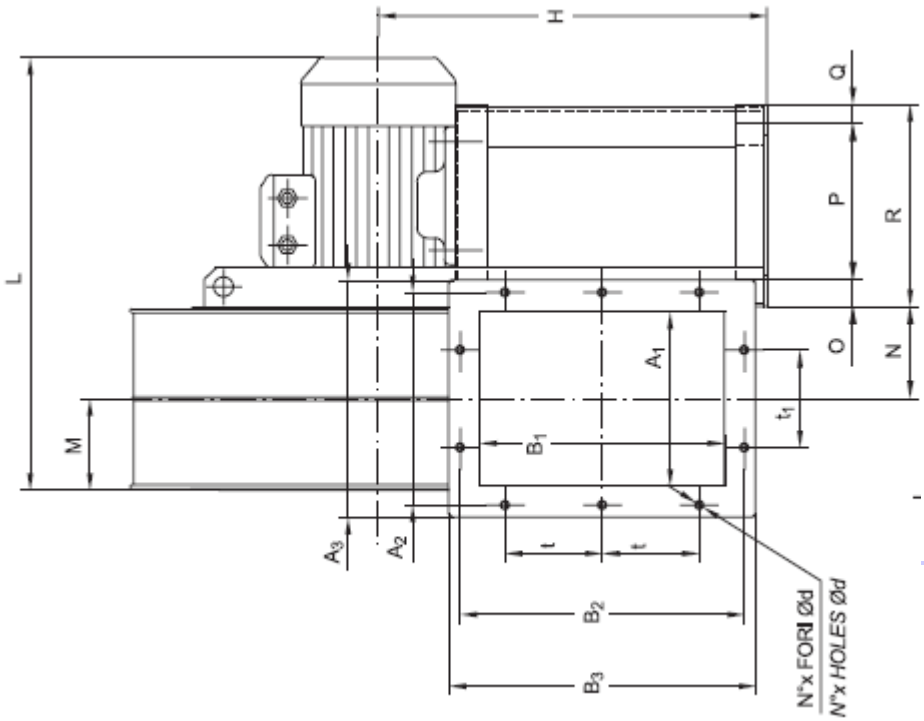
SPECIAL VERSIONS

AI made of stainless steel AISI 304 to extract corrosive fumes
AS anti-spark version in accordance with ANIMA-COAER standards (table NV105)
HZ manufactured to work at Hz. 60
HT conveyed fluid temperature up to a maximum of 250oC (this version is made with longer shaft motor and extra cooling fan)
SB arrangement 5 with motor type B5 or B3/B5 without motor support base
TH high protection for use in tropical climate with high degree of humidity
TR belt drive, 9 or 12 arrangement
EX ATEX version zone 1 – zone 2 (GAS) and zone 21 – zone 22 (DUST)



OVERALL DIMENSIONS



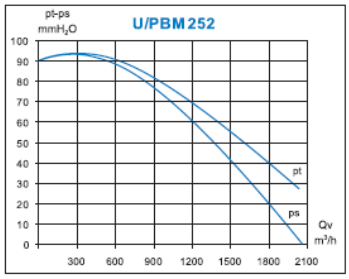


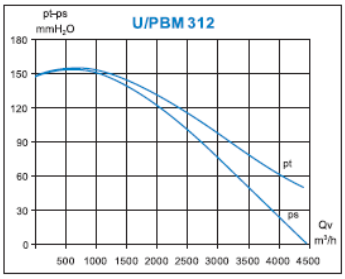
Ventilatore / *Fan* Tipo/*Type*	A_1	B_1	A_2	B_2	A_3	B_3	t	t_1	N°x	ød	øD	$øD_1$	$øD_2$	E	F	G_1	G_2	H	H_1	H_2	L	M	N	O	P	Q	R	S	T	U	V	W	Y	Z	$ød_1$	kg
U/PBM 252	140	200	182	240	210	270	112	112	8	11	205	241	265	440	520	200	170	315	315	315	340	75	75	50	125	15	190	215	234	-	-	-	-	-	11	24
U/PBM 312	180	250	219	292	250	320	2x112	112	10	11	255	292	320	545	670	243	228	400	400	400	425	95	96	50	125	15	190	215	234	-	-	-	-	-	11	40
U/PBM 352	200	280	248	332	280	360	2x125	125	10	11	285	332	365	610	745	265	262	450	450	450	490	105	106	60	137	18	215	245	274	-	-	-	-	-	12	55
U/PBM 402	224	315	273	366	305	395	2x125	125	10	11	320	366	400	680	825	298	288	500	500	500	560	117	120	35	200	25	260	300	332	-	-	-	-	-	12	87
U/PBM 452	250	355	300	405	330	435	2x125	125	10	11	360	405	440	765	925	333	322	560	560	560	680	130	133	45	250	25	320	360	392	-	-	-	-	-	12	130
U/PBM 502	280	400	332	448	360	480	3x125	2x125	14	11	405	448	485	850	1030	368	357	630	630	630	810	145	148	55	340	30	425	400	442	-	-	-	-	-	14	185
U/PBM 562	315	450	366	497	395	530	3x125	2x125	14	11	455	497	535	950	1165	400	410	710	710	710	840	163	165	55	340	30	425	400	442	-	-	-	-	-	14	225
U/PBM 563																					880															245
U/PBM 632	355	500	405	551	435	580	3x125	2x125	14	11	505	551	585	1080	1310	450	465	630	450	800	1110	185	180	-	385	40	500	710	760	25	910	360	50	460	19	435
U/PBM 633																																				460
U/PBM 634																					840				250	25	320				730			430	17	240
U/PBM 714	400	560	464	629	500	660	3x160	2x160	14	14	585	629	665	1210	1480	500	525	710	500	900	880	210	205	-	250	25	320	800	850	25	775	405	50	475	17	355
U/PBM 804	450	630	513	698	550	730	3x160	2x160	14	14	655	698	735	1340	1650	560	585	800	560	1000	1030	236	230	-	340	30	425	870	930	30	940	455	60	540	17	475
U/PBM 805																					1070															500
U/PBM 904	500	710	567	775	600	810	4x160	2x160	16	14	715	775	815	1480	1770	630	630	900	630	1060	1170	265	255	-	370	35	470	970	1030	30	1036	506	60	601	19	640
U/PBM 905																					1270				385	40	500				1066			611		740
U/PBM 1004	560	800	639	871	680	920	3x200	2x200	14	14	805	861	905	1660	1980	710	710	1000	710	1180	1350	295	285	-	425	40	550	1060	1130	30	1178	568	60	683	21	935
U/PBM 1005																					1380															965

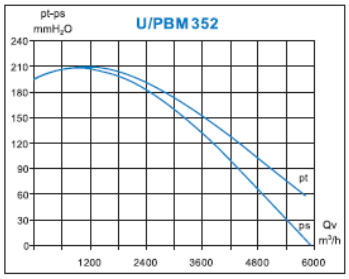
Dimensioni in mm

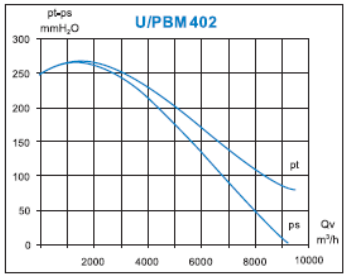
Dimensions in mm

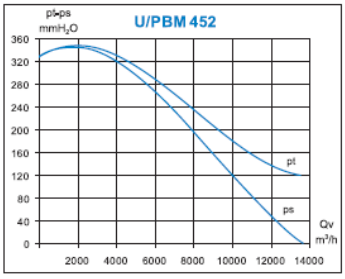
CHARACTERISTIC CURVES

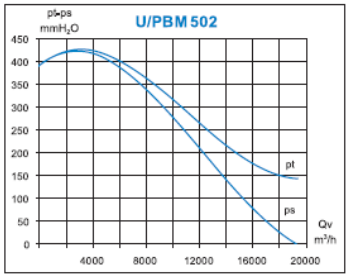


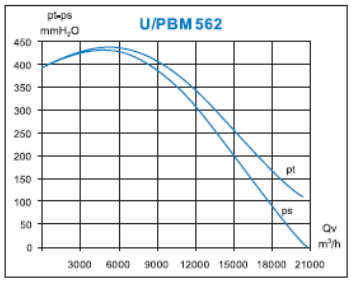


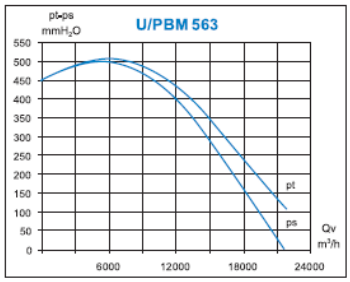


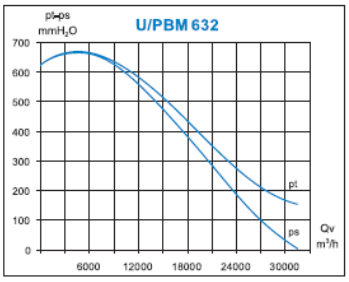


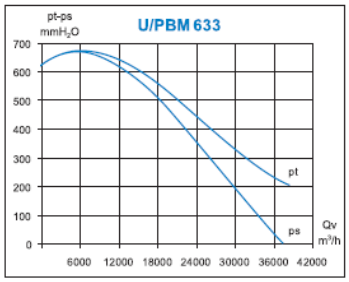


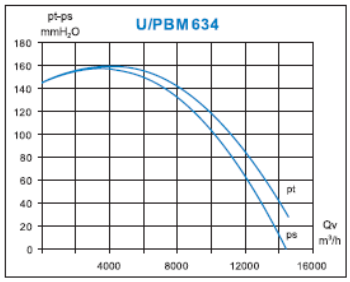


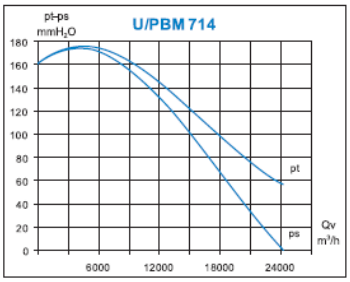












TEQNIVENT LIMITED
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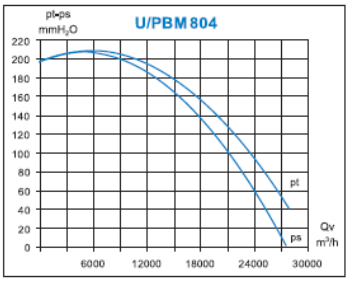
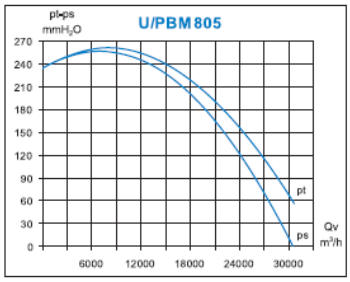
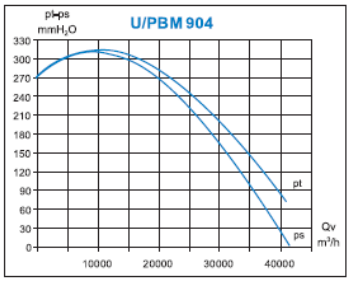
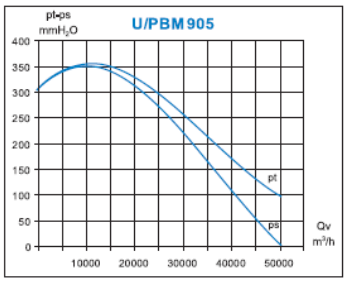
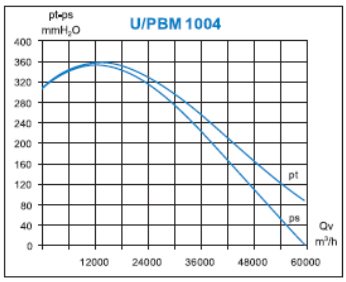
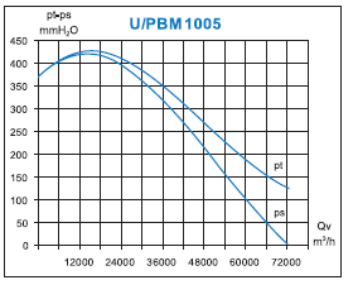












GENERAL FEATURES

The **U/MPR** series centrifugal fans are designed to take up air, even if dusty, at **temperatures** of up to a maximum 80°C.

They are **used** in all the industrial applications requiring medium-to-high pressure and low noise.

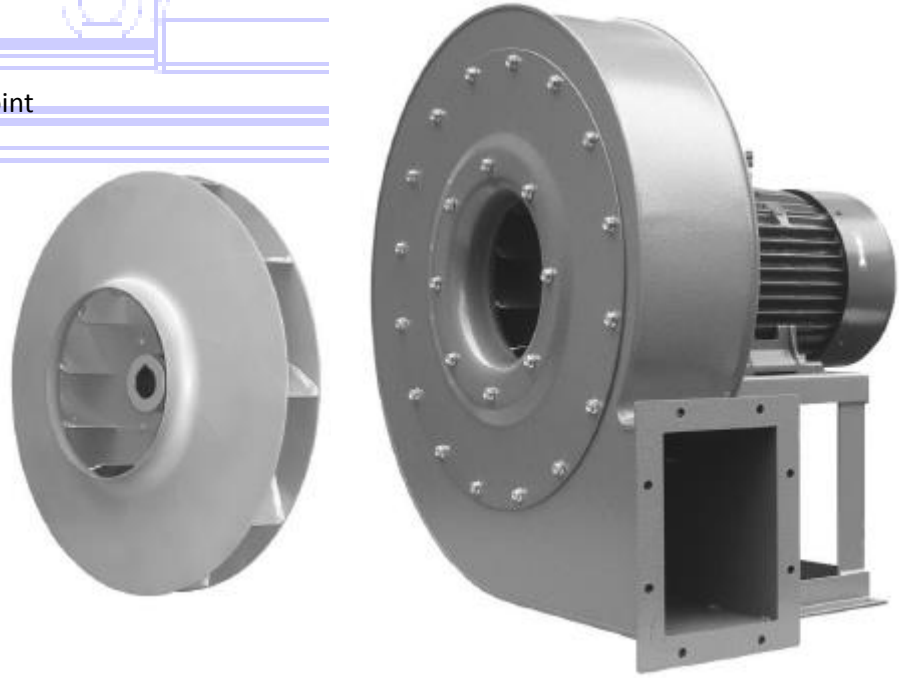
The strong steel sheet **spiral casings** are rimmed and welded. These fans also have a base for the motor and the discharge angle can be adjusted in 45° steps by rotating either clockwise RD or counter-clockwise LG (see discharge direction table).

The spot-welded **impellers** with high performance, backward-curved blades, have been carefully balanced both statically and dynamically.

The **motors** installed are asynchronous, three-phase or single-phase, 2 poles, B3, with IP55 protection, self-ventilated, designed for continuous service and are UNEL and IEC compliant.

ACCESSORIES

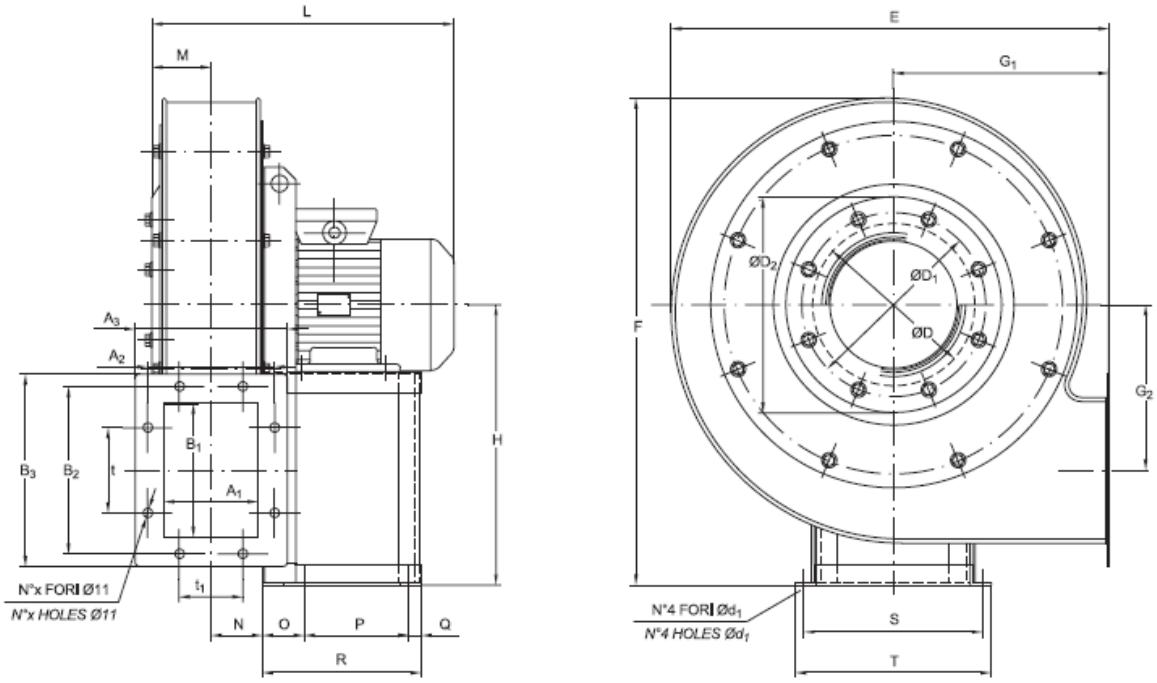
RP inlet protection net
GA intaking vibration-damping joint
RA intaking joint
RF inlet flanged fitting
CA inlet counter-flange
FL inlet filter
SA inlet silencer
SF throttle valve
RM outlet protection net
GM feed vibration-damping joint
CM outlet counter-flange
QT outlet square-round joint
SM outlet silencer
TS discharge plug
PI inspection door
AV vibration dampers



SPECIAL VERSIONS

AI made of stainless steel AISI 304 to extract corrosive fumes
AS anti-spark version in accordance with ANIMA-COAER standards (table NV105)
HZ manufactured to work at Hz. 60
HT conveyed fluid temperature up to a maximum of 250oC (this version is made with longer shaft motor and extra cooling fan)
SB arrangement 5 with motor type B5 or B3/B5 without motor support base
TH high protection for use in tropical climate with high degree of humidity
TR belt drive, 9 or 12 arrangement
EX ATEX version zone 1 – zone 2 (GAS) and zone 21 – zone 22 (DUST)

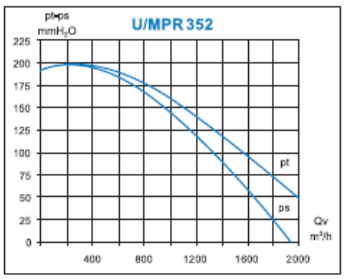
OVERALL DIMENSIONS

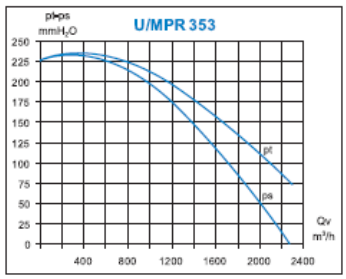


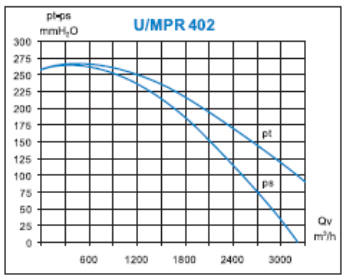
Ventilatore *Fan* Tipo/*Type*	A_1	B_1	A_2	B_2	A_3	B_3	t	t_1	N°x	øD	$øD_1$	$øD_2$	E	F	G_1	G_2	H	L	M	N	O	P	Q	R	S	T	$ød_1$	kg
U/MPR 352	112	160	152	200	182	230	112	-	6	185	219	245	525	583	258	198	335	360	71	62	50	125	15	190	215	234	11	31
U/MPR 353																		375										33
U/MPR 402	125	180	166	218	196	250	112	-	6	205	241	265	585	657	281	229	375	410	75	68	60	137	18	215	245	274	12	41
U/MPR 403																		430										45
U/MPR 452	140	200	182	240	210	270	112	112	8	230	265	290	650	712	316	249	400	490	85	78	35	200	25	260	300	332	12	64
U/MPR 453																		500										75
U/MPR 501	160	224	200	265	230	295	112	112	8	255	292	320	735	802	353	291	450	520	95	88	35	200	25	260	300	332	12	85
U/MPR 502																		585			45	250		320	360	392		108
U/MPR 503																		605										120
U/MPR 561	180	250	219	292	250	320	2x112	112	10	285	332	365	835	906	403	330	500	625	106	98	45	250	25	320	360	392	12	138
U/MPR 562																		655										150
U/MPR 563																		725			55	340	30	425	400	442	14	175
U/MPR 631	200	280	248	332	280	360	2x125	125	10	320	366	400	920	1002	443	365	560	760	120	108	55	340	30	425	400	442	14	186
U/MPR 632																												197
U/MPR 633																		810										220

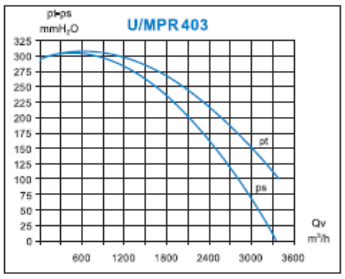
Dimensioni in mm — *Dimensions in mm*

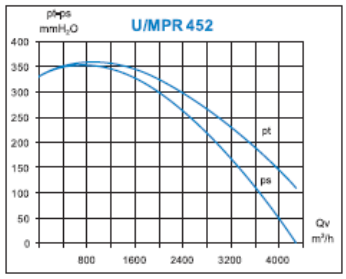
MODELS AND PERFORMANCES

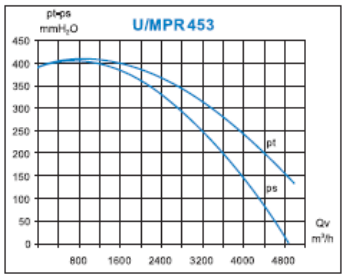


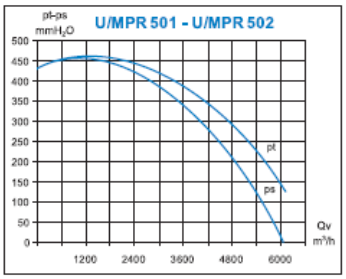


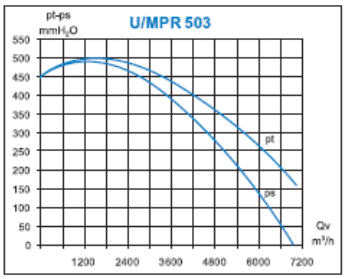


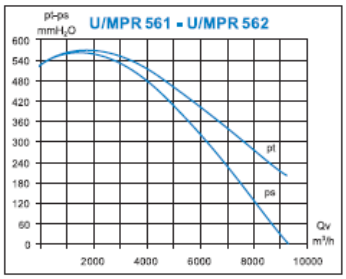


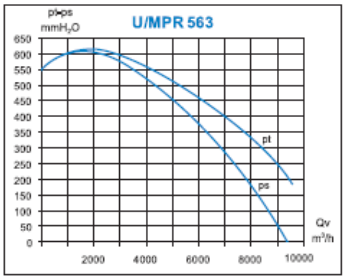


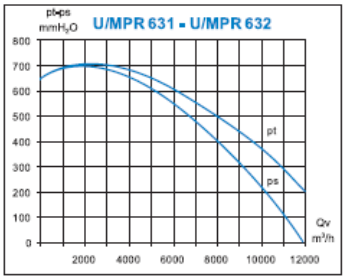


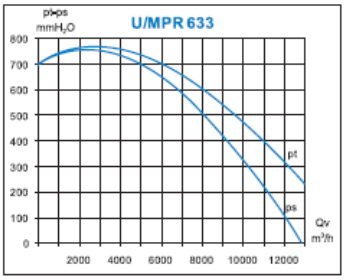












TEQNIVENT LIMITED
ENVIRONMENTAL SYSTEMS & EQUIPMENT

GENERAL FEATURES

The **U/APE** series centrifugal fans are designed to take up air, even if dusty, at **temperatures** of up to a maximum 80°C.

These fans are **used** in the industrial systems requiring high pressures and low flow rates. Furthermore they can also be used for pneumatic conveyance.

The strong steel sheet **spiral casings** are rimmed and welded. These fans also have a base for the motor and the discharge angle can be adjusted in 45° steps by rotating either clockwise RD or counter-clockwise LG (see discharge direction table).

The welded steel sheet **impellers** with forward-curved blades have been carefully balanced both statically and dynamically, and are connected directly to the motor shaft.

The **motors** installed are asynchronous, three-phase or single-phase, 2 pole, B3, with IP55 protection, self-ventilated, designed for continuous service and are UNEL and IEC compliant.

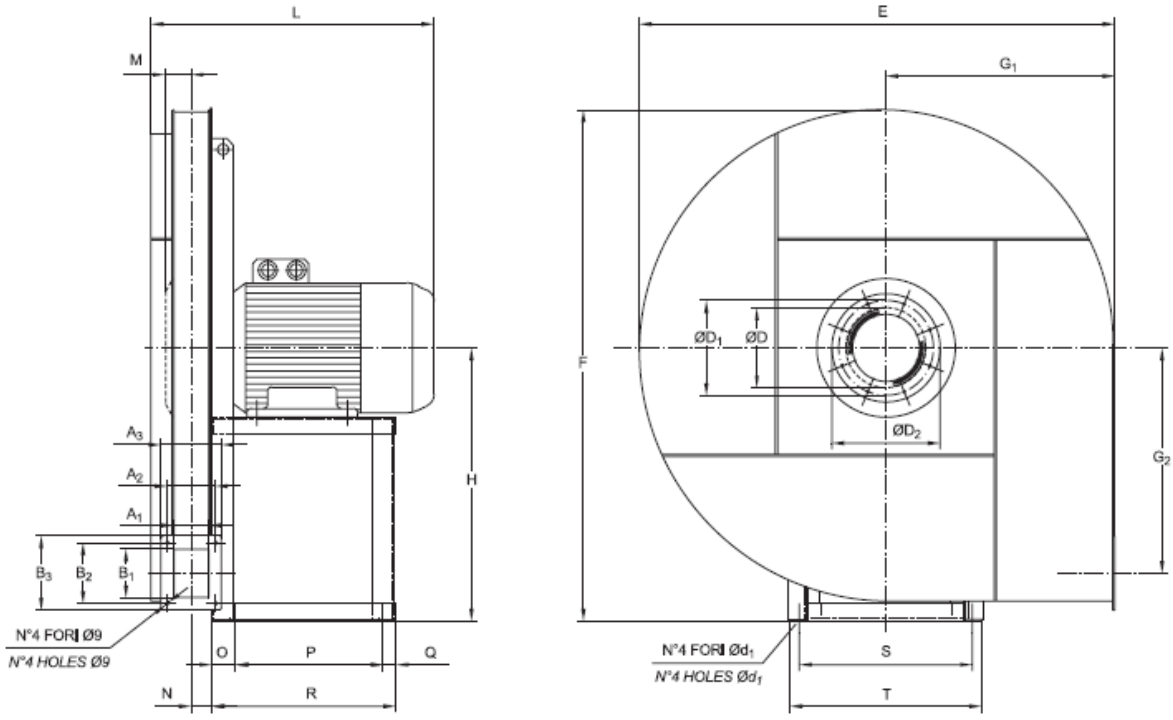
ACCESSORIES

RP inlet protection net
GA intaking vibration-damping joint
RA intaking joint
RF inlet flanged fitting
CA inlet counter-flange
FL inlet filter
SA inlet silencer
SF throttle valve
RM outlet protection net
GM feed vibration-damping joint
CM outlet counter-flange
QT outlet square-round joint
SM outlet silencer
TS discharge plug
AV vibration dampers

SPECIAL VERSIONS

AI made of stainless steel AISI 304 to extract corrosive fumes
AS anti-spark version in accordance with ANIMA-COAER standards (table NV105)
HZ manufactured to work at Hz. 60
HT conveyed fluid temperature up to a maximum of 250oC (this version is made with longer shaft motor and extra cooling fan)
SB arrangement 5 with motor type B5 or B3/B5 without motor support base
TH high protection for use in tropical climate with high degree of humidity
TR belt drive, 9 or 12 arrangement
EX ATEX version zone 1 – zone 2 (GAS) and zone 21 – zone 22 (DUST)

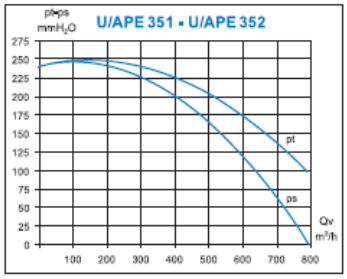
OVERALL DIMENSIONS

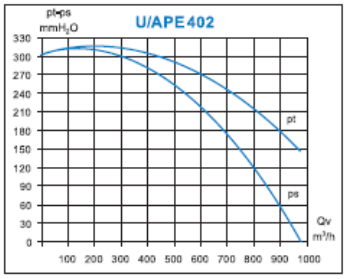


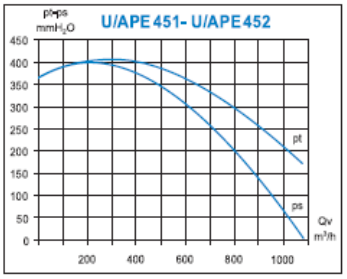
Ventilatore Fan Tipo/Type	A_1	B_1	A_2	B_2	A_3	B_3	øD	$øD_1$	$øD_2$	E	F	G_1	G_2	H	L	M	N	O	P	Q	R	S	T	$ød_1$	kg
U/APE 351	63	90	90	112	123	150	150	182	210	510	560	250	220	300	280	45	38	50	125	15	190	215	234	11	30
U/APE 352															305										30
U/APE 402	63	90	90	112	123	150	150	182	210	510	560	250	220	300	315	45	38	50	125	15	190	215	234	11	34
U/APE 451	63	90	90	112	123	150	150	182	210	635	670	300	280	355	295	45	38	50	125	15	190	215	234	11	43
U/APE 452															315										45
U/APE 502	63	90	90	112	123	150	150	182	210	635	670	300	280	355	345	45	38	60	137	18	215	245	274	11	50
U/APE 561	71	100	100	125	131	160	165	200	225	735	800	355	330	425	355	50	42	60	137	18	215	245	274	11	66
U/APE 562															375										69
U/APE 632	71	100	100	125	131	160	165	200	225	735	800	355	330	425	410	50	42	35	200	25	260	300	332	12	75
U/APE 712	71	100	100	125	131	160	165	200	225	825	890	400	380	475	440	50	42	35	200	25	260	300	332	12	112
U/APE 713															505			45	250		320	360	392		140
U/APE 801	71	100	100	125	131	160	165	200	225	925	995	450	430	530	535	50	42	45	250	25	320	360	392	12	180
U/APE 802															565										182
U/APE 901	80	112	112	140	140	172	185	219	245	1100	1180	530	520	630	650	58	48	55	340	30	425	400	442	14	276
U/APE 902																									290

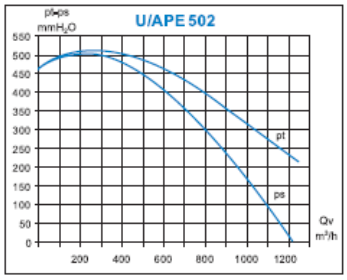
Dimensioni in mm — *Dimensions in mm*

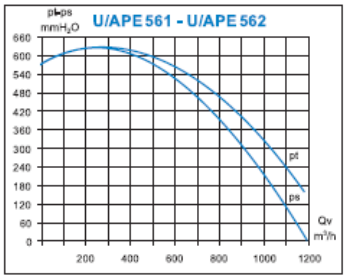
MODELS AND PERFORMANCES

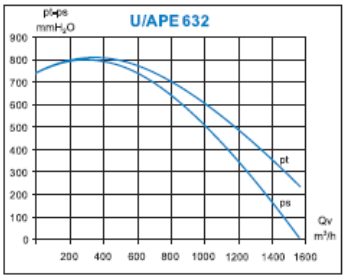


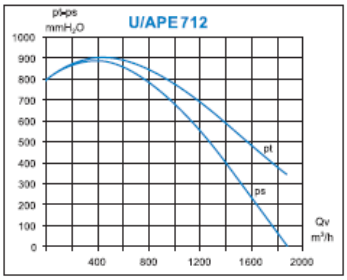


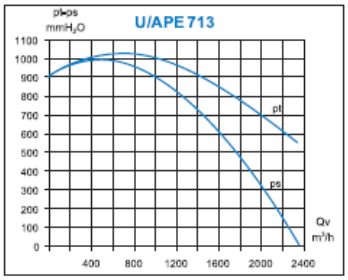


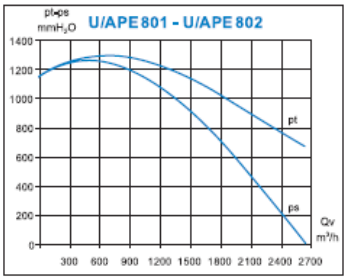


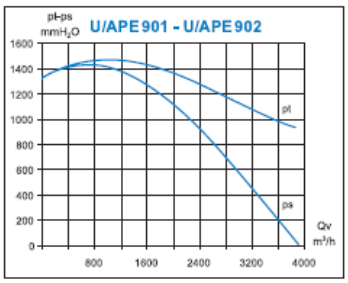












TEQNIVENT LIMITED
ENVIRONMENTAL SYSTEMS & EQUIPMENT

GENERAL FEATURES

The **U/APR** series centrifugal fans are designed to take up air, even very dusty, at **temperatures** of up to a maximum 80°C.

They are **used** in all the industrial plants requiring very high pressures. Furthermore these fans can also be used to convey air containing granular, but not stringy, material.

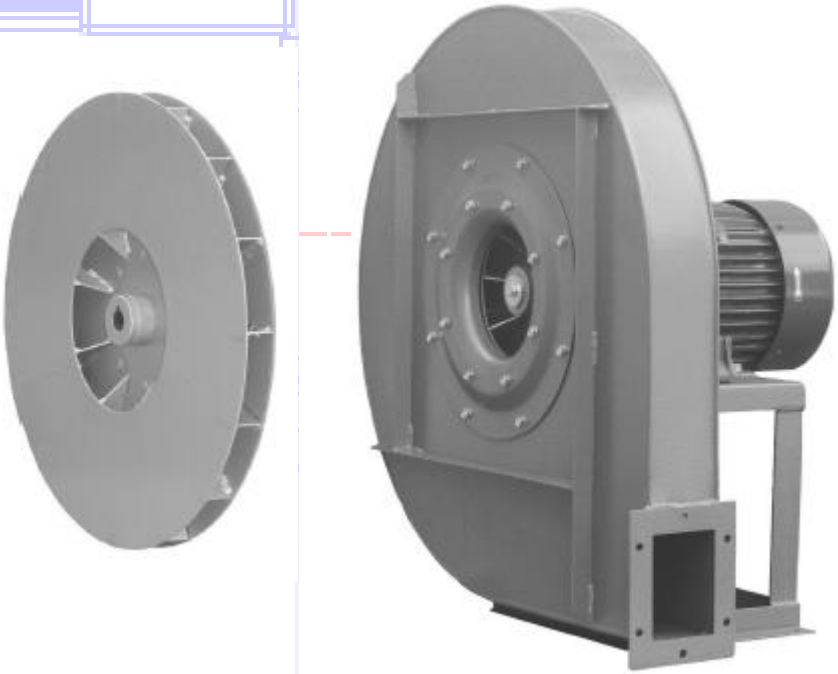
The strong steel sheet **spiral casings** are rimmed and reinforced with steel profiles. These fans also have a base for the motor and the discharge angle can be adjusted in 45° steps by rotating either clockwise RD or counter-clockwise LG (see discharge direction table).

The welded steel sheet **impellers** with radial blades have been perfectly balanced both statically and dynamically and are connected directly to the motor shaft.

The **motors** installed are asynchronous, three-phase or single-phase, 2 poles, B3, with IP55 protection, self-ventilated, designed for continuous service and are UNEL and IEC compliant.

ACCESSORIES

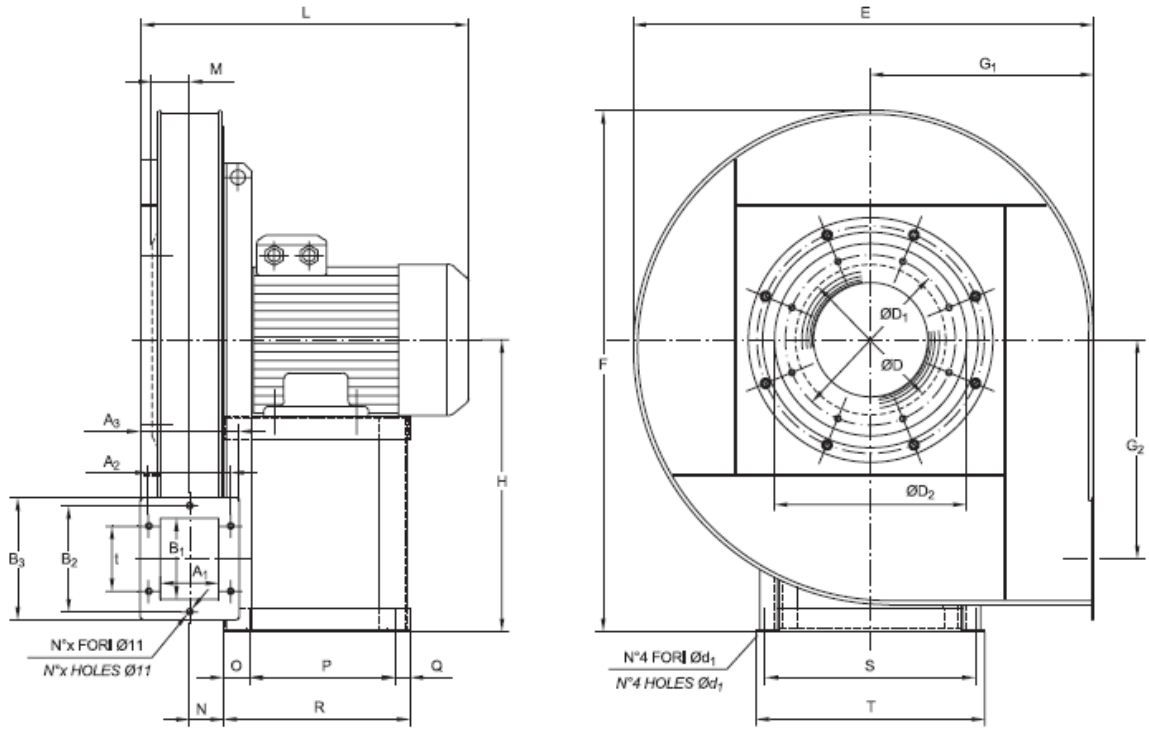
RP inlet protection net
GA intaking vibration-damping joint
RA intaking joint
RF inlet flanged fitting
CA inlet counter-flange
FL inlet filter
SA inlet silencer
SF throttle valve
RM outlet protection net
GM feed vibration-damping joint
CM outlet counter-flange
QT outlet square-round joint
SM outlet silencer
TS discharge plug
AV vibration dampers



SPECIAL VERSIONS

AI made of stainless steel AISI 304 to extract corrosive fumes
AS anti-spark version in accordance with ANIMA-COAER standards (table NV105)
HZ manufactured to work at Hz. 60
HT conveyed fluid temperature up to a maximum of 250oC (this version is made with longer shaft motor and extra cooling fan)
SB arrangement 5 with motor type B5 or B3/B5 without motor support base
TH high protection for use in tropical climate with high degree of humidity
TR belt drive, 9 or 12 arrangement
EX ATEX version zone 1 – zone 2 (GAS) and zone 21 – zone 22 (DUST)

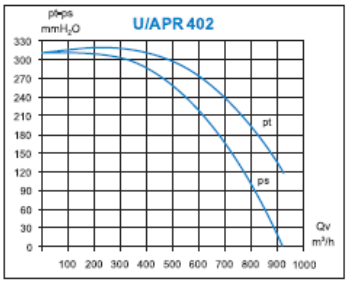
OVERALL DIMENSIONS

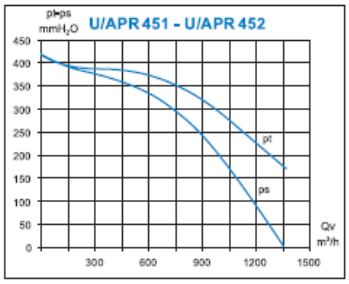


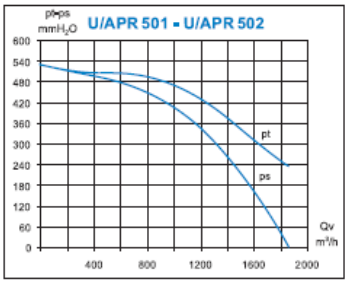
Ventilatore *Fan* Tipo/*Type*	A_1	B_1	A_2	B_2	A_3	B_3	t	N°x	øD	$øD_1$	$øD_2$	E	F	G_1	G_2	H	L	M	N	O	P	Q	R	S	T	$ød_1$	kg
U/APR 402	63	90	90	112	123	150	-	4	185	219	245	525	597	253	250	335	320	47	38	50	125	15	190	215	234	11	33
U/APR 451	71	100	100	125	131	160	-	4	205	241	265	595	672	280	274	375	345	48	42	50	125	15	190	215	234	11	44
U/APR 452																	365			60	137	18	215	245	274	12	48
U/APR 501	80	112	112	140	140	172	-	4	205	241	265	630	715	305	300	400	400	52	48	60	137	18	215	245	274	12	62
U/APR 502																	435			35	200	25	260	300	332		74
U/APR 561	90	125	130	165	150	185	100	6	205	241	265	730	825	350	330	460	450	57	53	35	200	25	260	300	332	12	92
U/APR 562																	460										100
U/APR 631	100	140	141	182	170	210	112	6	230	265	290	816	908	388	370	500	525	66	58	45	250	25	320	360	392	12	140
U/APR 632																	565										150
U/APR 633																	595										160
U/APR 711	112	160	152	200	182	230	112	6	285	332	365	900	1010	420	420	560	605	73	64	45	250	25	320	360	392	12	168
U/APR 712																	660			55	340	30	425	400	440	14	194
U/APR 713																											208

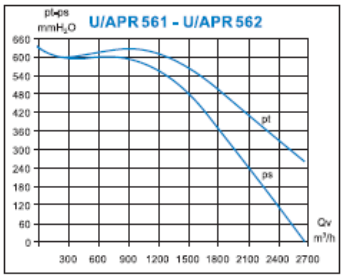
Dimensioni in mm — *Dimensions in mm*

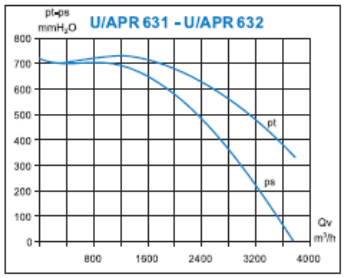
MODELS AND PERFORMANCES

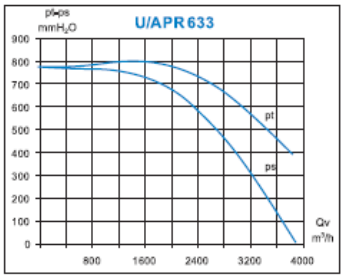


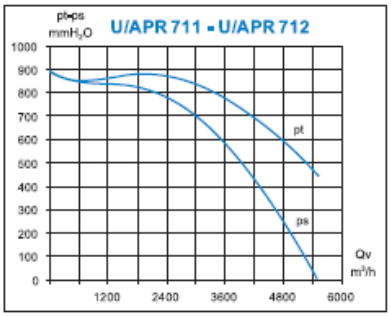


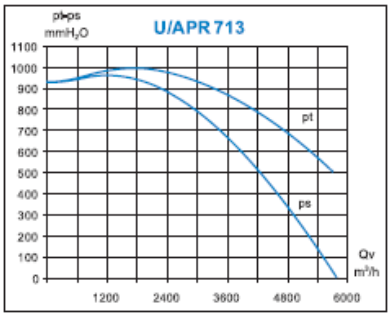












GENERAL FEATURES

The **U/APF** series centrifugal fans are designed to take up air, even if dusty, at **temperatures** of up to a maximum 80°C.

These high performance, high pressure fans are **used** in exhaust, drying and pressurization systems.

The strong steel sheet **spiral casings** are rimmed, welded and reinforced with steel profiles. These fans also have a base for the motor and the discharge angle can be regulated in 45° steps by rotating either clockwise RD or counter-clockwise LG (see discharge direction table).

The welded steel sheet **impellers** with forward-curved blades, have been balanced both statically and dynamically, and are connected directly to the motor shaft.

The **motors** installed are asynchronous, three-phase, 2 poles, B3, with IP55 protection, self-ventilated, designed for continuous service and are UNEL and IEC compliant.

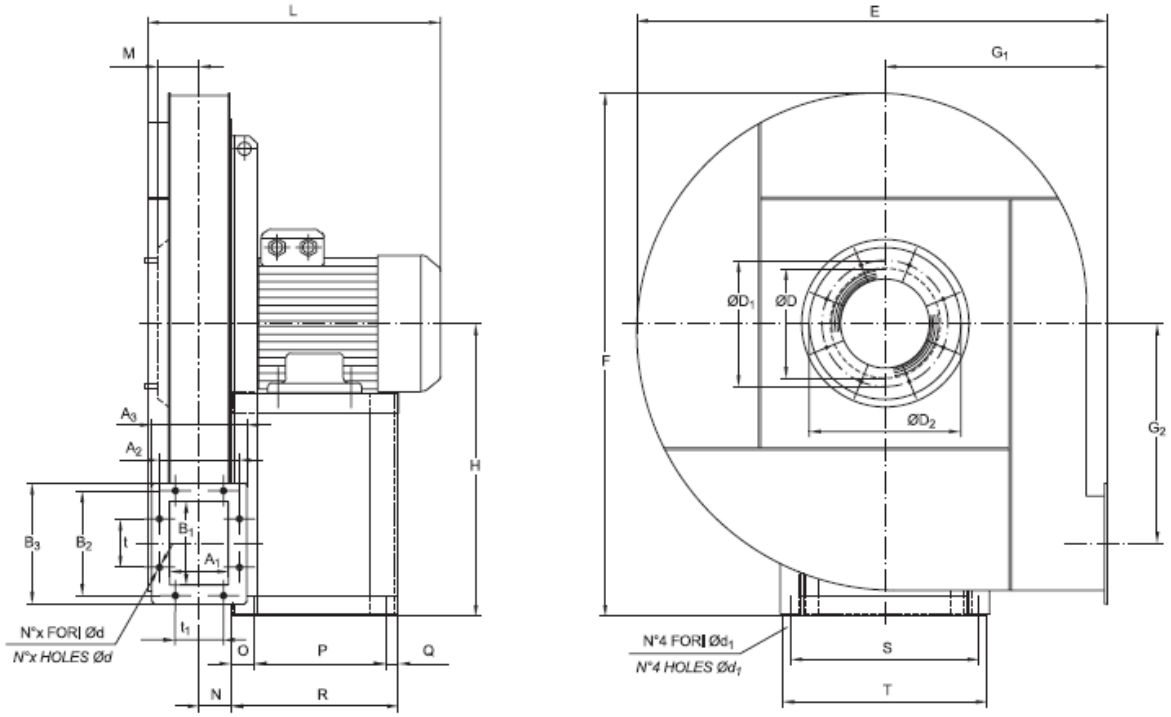
ACCESSORIES

RP inlet protection net
GA intaking vibration-damping joint
RA intaking joint
RF inlet flanged fitting
CA inlet counter-flange
FL inlet filter
SA inlet silencer
SF throttle valve
RM outlet protection net
GM feed vibration-damping joint
CM outlet counter-flange
QT outlet square-round joint
SM outlet silencer
TS discharge plug
AV vibration dampers

SPECIAL VERSIONS

AI made of stainless steel AISI 304 to extract corrosive fumes
AS anti-spark version in accordance with ANIMA-COAER standards (table NV105)
HZ manufactured to work at Hz. 60
HT conveyed fluid temperature up to a maximum of 250oC (this version is made with longer shaft motor and extra cooling fan)
SB arrangement 5 with motor type B5 or B3/B5 without motor support base
TH high protection for use in tropical climate with high degree of humidity
TR belt drive, 9 or 12 arrangement
EX ATEX version zone 1 – zone 2 (GAS) and zone 21 – zone 22 (DUST)

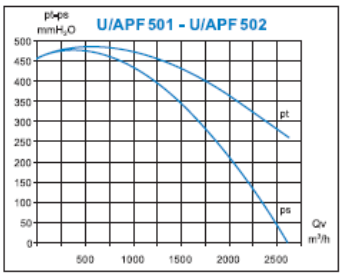
OVERALL DIMENSIONS

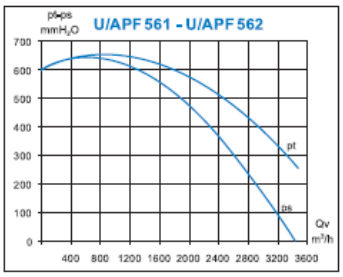


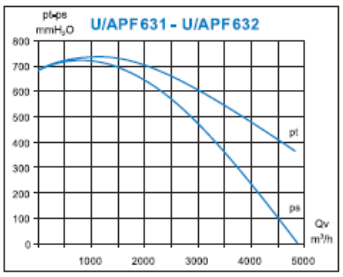
Ventilatore Fan Tipo/Type	A_1	B_1	A_2	B_2	A_3	B_3	t	t_1	N°x	ød	øD	$øD_1$	$øD_2$	E	F	G_1	G_2	H	L	M	N	O	P	Q	R	S	T	$ød_1$	kg
U/APF 501	90	125	130	165	150	185	100	-	6	9,5	165	200	225	735	800	355	337	450	415	58	53	60	137	18	215	245	270	10	61
U/APF 502																			450			35	200	25	260	300	335	12	71
U/APF 561	100	140	141	182	170	210	112	-	6	11,5	185	219	245	825	900	400	380	500	470	65	58	35	200	25	260	300	335	12	95
U/APF 562																			530			45	250		320	360	392		120
U/APF 631	112	160	153	200	182	230	112	-	6	11,5	205	241	265	900	1000	425	420	560	550	71	63	45	250	25	320	360	392	12	127
U/APF 632																			580										138
U/APF 633																			610										145
U/APF 711	125	180	167	219	195	250	112	-	6	11,5	230	265	290	1000	1120	475	470	630	700	80	71	55	340	30	425	400	440	14	255
U/APF 712																													285
U/APF 713																			740										310
U/APF 801	140	200	182	241	210	270	112	112	8	11,5	255	292	320	1120	1250	530	530	710	760	90	80	55	340	30	425	400	440	14	355
U/APF 802																			800			65	370	35	470	450	500		405
U/APF 803																			900			75	385	40	500	510	570	16	535
U/APF 901	160	224	200	265	230	295	112	112	8	11,5	285	332	365	1250	1400	600	600	800	920	100	90	75	385	40	500	510	570	16	605
U/APF 902																			970			85	425		550	565	626	19	645
U/APF 903																			1060			95	460	45	600	615	686	21	705

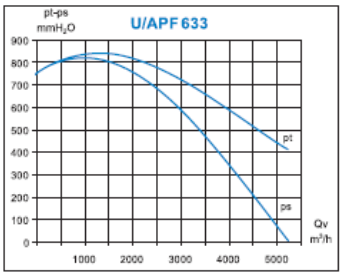
Dimensioni in mm — *Dimensions in mm*

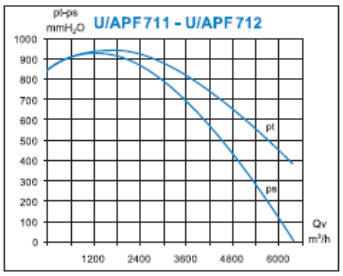
MODELS AND PERFORMANCES

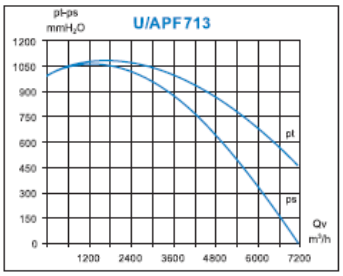


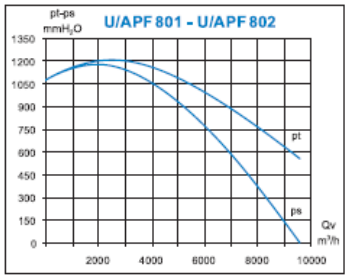


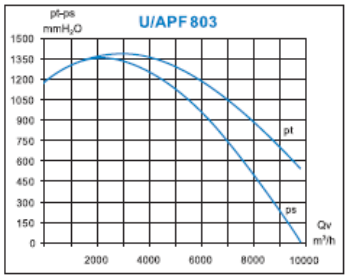


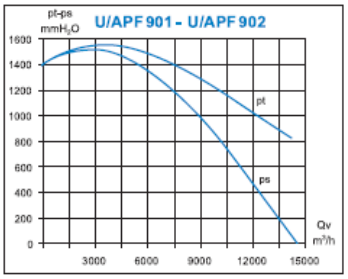


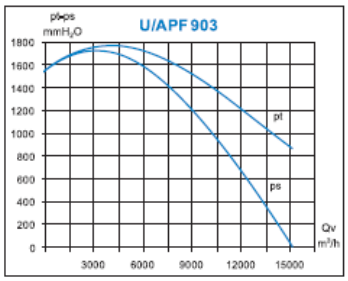












GENERAL FEATURES

The **U/HPG** series centrifugal fans are designed to convey air, clean or dirty, at **temperatures** of up to a maximum 80°C.

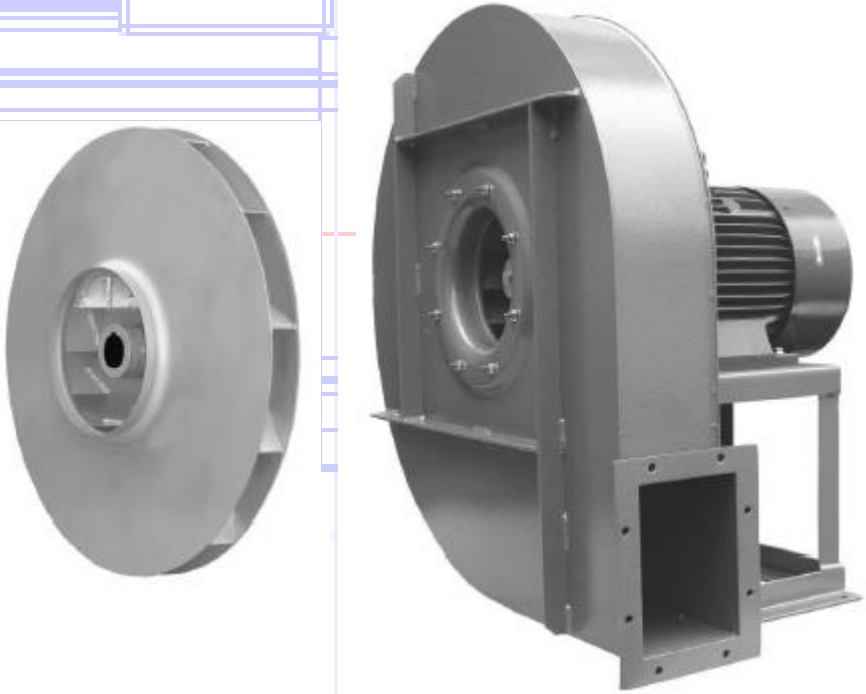
They are **used** in all industrial plants requiring high pressures. They can be used for pneumatic conveyance.

The strong steel sheet **spiral casings** are rimmed, welded and reinforced with profiles. These fans also have a motor support base and the discharge angle can be regulated in 45° steps by rotating either clockwise RD or counter-clockwise LG (see discharge direction table).

The welded steel sheet **impellers** with high performance backward-curved blades, have been perfectly balanced both statically and dynamically and are connected directly to the motor shaft.

The **motors** are asynchronous, three-phase, 2 poles, B3, with IP55 protection, self-ventilated, designed for continuous service and are UNEL and IEC compliant.

ACCESSORIES

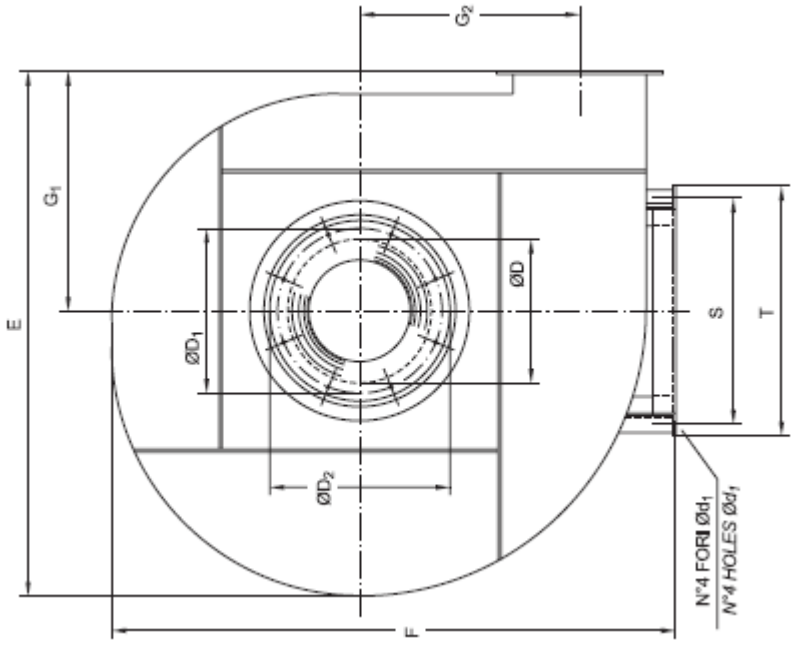


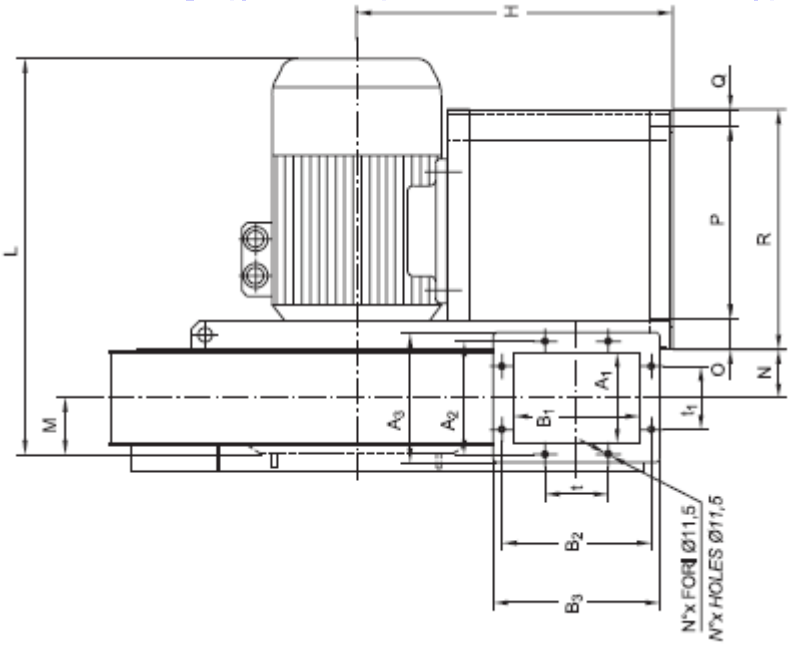
RP inlet protection net
GA intaking vibration-damping joint
RA intaking joint
RF inlet flanged fitting
CA inlet counter-flange
FL inlet filter
SA inlet silencer
SF throttle valve
RM outlet protection net
GM feed vibration-damping joint
CM outlet counter-flange
QT outlet square-round joint
SM outlet silencer
TS discharge plug
PI inspection door
AV vibration dampers

SPECIAL VERSIONS

AI made of stainless steel AISI 304 to extract corrosive fumes
AS anti-spark version in accordance with ANIMA-COAER standards (table NV105)
HZ manufactured to work at Hz. 60
HT conveyed fluid temperature up to a maximum of 250oC (this version is made with longer shaft motor and extra cooling fan)
SB arrangement 5 with motor type B5 or B3/B5 without motor support base
TH high protection for use in tropical climate with high degree of humidity
TR belt drive, 9 or 12 arrangement

OVERALL DIMENSIONS





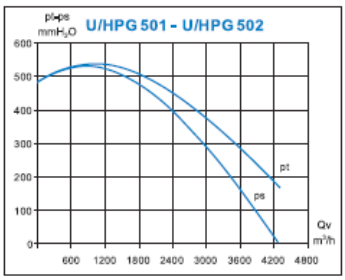
entilatore / *Fan* Tipo/*Type*	A_1	B_1	A_2	B_2	A_3	B_3	t	t_1	N°x	øD	$øD_1$	$øD_2$	E	F	G_1	G_2	H	H_1	H_2	L	M	N	O	P	Q	R	S	S_1	T	U	V	W	Y	Z	$ød_1$	kg
U/HPG 501	125	180	167	219	195	250	112	-	6	205	241	265	735	800	355	310	450	450	450	470	80	71	35	200	25	260	300	-	332	-	-	-	-	-	12	73
U/HPG 502																				480																82
U/HPG 562	140	200	182	241	210	270	112	112	8	230	265	290	825	900	400	350	500	500	500	560	90	80	45	250	25	320	360	-	392	-	-	-	-	-	12	120
U/HPG 563																				590																135
U/HPG 631	160	224	200	265	230	295	112	112	8	255	292	320	930	1000	425	390	560	560	560	640	100	90	45	250	25	320	360	-	392	-	-	-	-	-	12	155
U/HPG 632																				700			55	340	30	425	400		442						14	230
U/HPG 633																																				235
U/HPG 711	180	250	219	292	250	320	2x112	112	10	285	332	365	1000	1120	475	435	630	630	630	720	110	100	55	340	30	425	400	-	442	-	-	-	-	-	14	270
U/HPG 712																				770																290
U/HPG 713																				810			65	370	35	470	450		500							350
U/HPG 801	200	280	249	332	280	360	2x125	125	10	320	366	400	1120	1250	530	490	710	710	710	930	120	110	75	385	40	500	510	-	570	-	-	-	-	-	16	515
U/HPG 802																																				525
U/HPG 803																				975			85	425		550	565		626							595
U/HPG 901	224	315	275	366	304	395	2x125	125	10	360	405	440	1250	1400	600	552	710	600	800	1100	135	120	-	460	45	600	615	560	686	30	895	235	60	360	21	800
U/HPG 902																								500	50	650	680		760		945			365		910
U/HPG 903																				1160																915

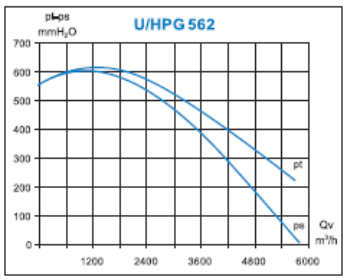
mensioni in mm

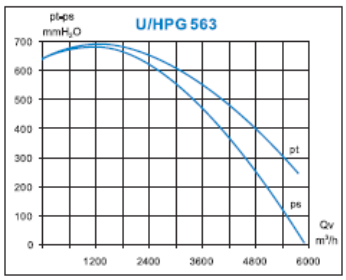
Dimensions in mm

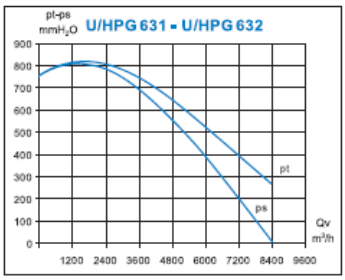
ENVIRONMENTAL SYSTEMS & EQUIPMENT

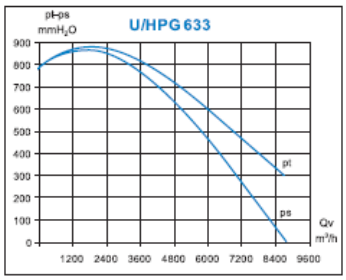
MODELS AND PERFORMANCES

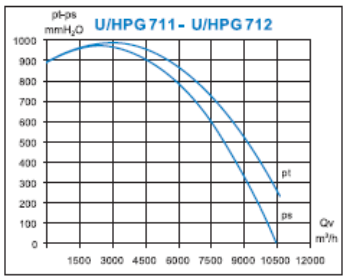


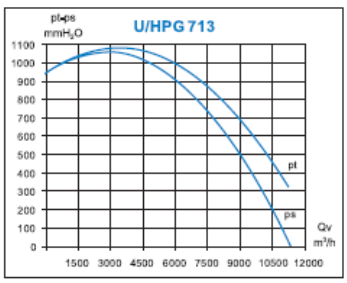


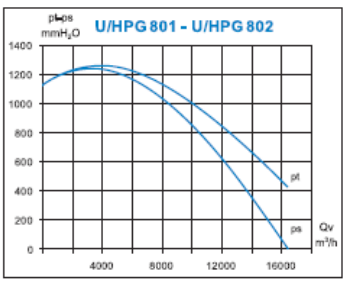


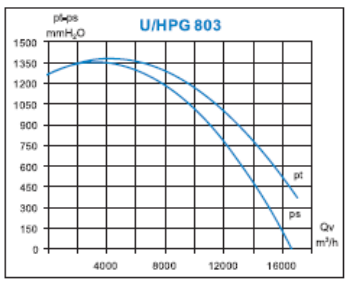


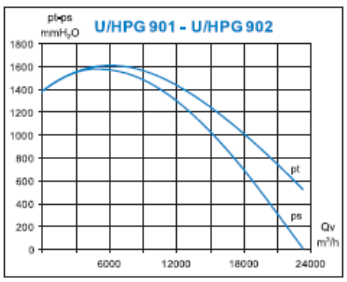


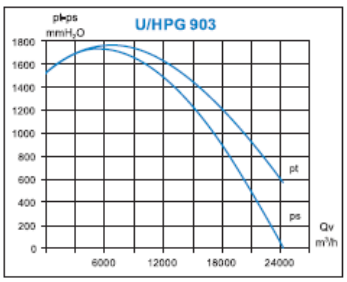












GENERAL FEATURES

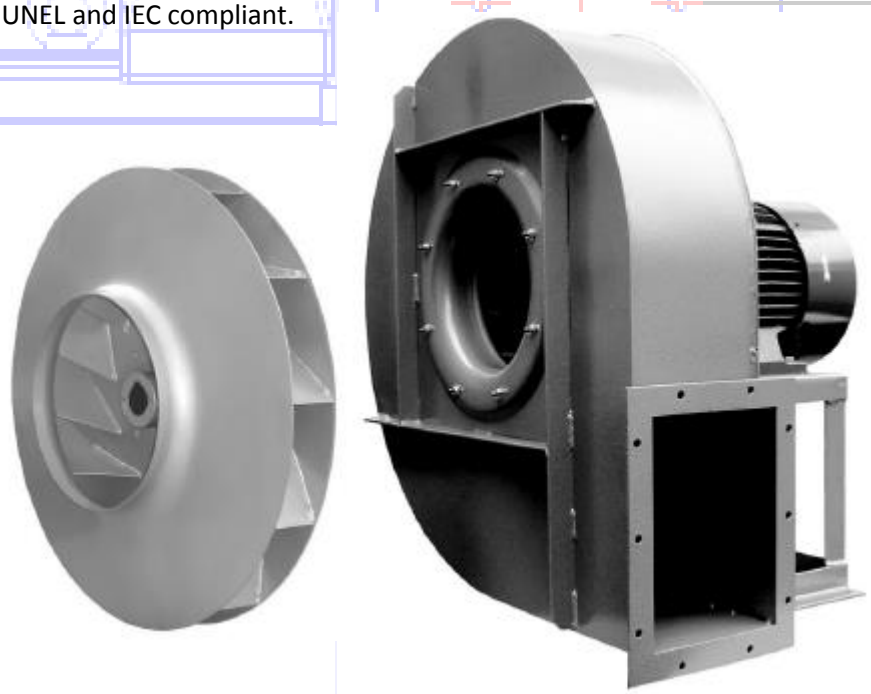
The **U/HPH** series fans are designed to convey air, even containing suspended solid particles, at **temperatures** of up to a maximum 80°C.

This high performance series is generally **used** in industrial applications requiring high pressure and high flow rates.

The particularly strong steel sheet **spiral casings** are rimmed, welded and reinforced with profiles. These fans also have a motor support base and the discharge angle can be regulated in 45° steps by rotating either clockwise RD or counter-clockwise LG (see discharge direction table).

The steel sheet **impellers** with backward-curved blades, have been perfectly balanced both statically and dynamically.

The **motors** are asynchronous, three-phase, 2 pole, B3, with IP55 protection, self-ventilated, designed for continuous service and are UNEL and IEC compliant.



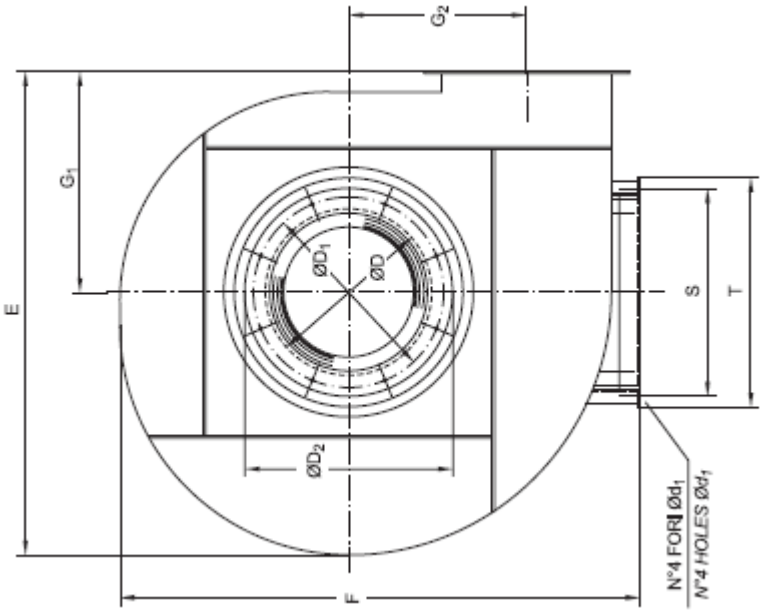
ACCESSORIES

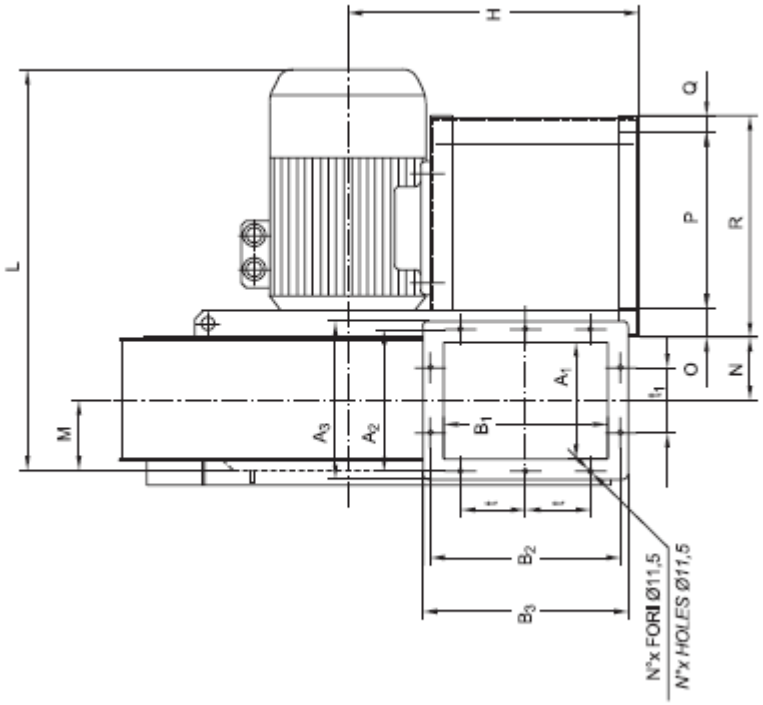
RP inlet protection net
GA intaking vibration-damping joint
RA intaking joint
RF inlet flanged fitting
CA inlet counter-flange
FL inlet filter
SA inlet silencer
SF throttle valve
RM outlet protection net
GM feed vibration-damping joint
CM outlet counter-flange
QT outlet square-round joint
SM outlet silencer
TS discharge plug
PI inspection door
AV vibration dampers

SPECIAL VERSIONS

AI made of stainless steel AISI 304 to extract corrosive fumes
AS anti-spark version in accordance with ANIMA-COAER standards (table NV105)
HZ manufactured to work at Hz. 60
HT conveyed fluid temperature up to a maximum of 250oC (this version is made with longer shaft motor and extra cooling fan)
SB arrangement 5 with motor type B5 or B3/B5 without motor support base
TH high protection for use in tropical climate with high degree of humidity
TR belt drive, 9 or 12 arrangement
EX ATEX version zone 1 – zone 2 (GAS) and zone 21 – zone 22 (DUST)

OVERALL DIMENSIONS



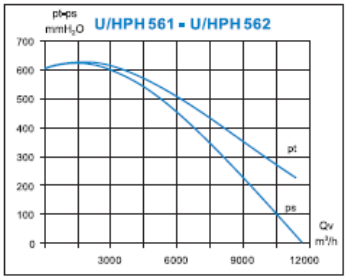


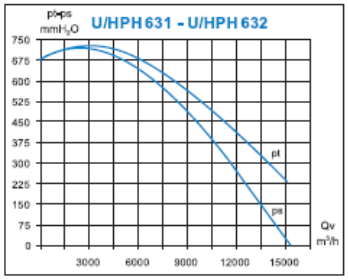
latore / *Fan* po/*Type*	A_1	B_1	A_2	B_2	A_3	B_3	t	t_1	N°x	øD	$øD_1$	$øD_2$	E	F	G_1	G_2	H	H_1	H_2	L	M	N	O	P	Q	R	S	S_1	T	U	V	W	Y	Z	$ød_1$	kg
HPH 561	200	280	249	332	280	360	2x125	125	10	285	332	365	825	900	400	310	500	500	500	680	120	110	45	250	25	320	360	-	392	-	-	-	-	-	12	150
HPH 562																				740			55	340	30	425	400		442						14	210
HPH 631	224	315	273	366	304	395	2x125	125	10	320	366	400	930	1000	425	342	560	560	560	765	135	120	55	340	30	425	400	-	442	-	-	-	-	-	14	250
HPH 632																				810															275
HPH 633																				850			65	370	35	470	450		500						310
HPH 712	250	355	300	405	330	435	2x125	125	10	360	405	440	1000	1120	475	382	630	630	630	980	145	135	75	385	40	500	510	-	570	-	-	-	-	-	16	450
HPH 713																																				470
HPH 801	280	400	332	448	360	480	3x125	2x125	14	405	448	485	1120	1250	530	430	710	710	710	1055	160	150	85	425	40	550	565	-	626	-	-	-	-	-	19	615
HPH 802																				1150			95	460	45	600	615		686						21	730
HPH 803																				1210			100	500	50	650	680		760							850
HPH 902	315	450	366	497	395	530	3x125	2x125	14	505	551	585	1250	1400	600	485	710	600	800	1250	180	170	-	550	50	700	680	710	686	30	1090	330	60	460	21	980
HPH 903																				1390				555	55	720	770		760		1110			470	24	1100

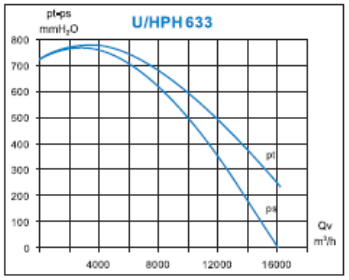
sioni in mm

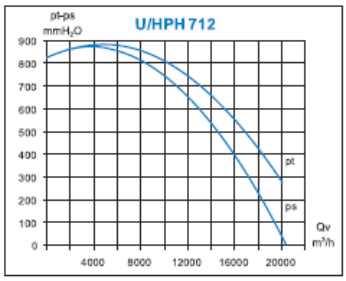
ENVIRONMENTAL SYSTEMS & EQUIPMENT

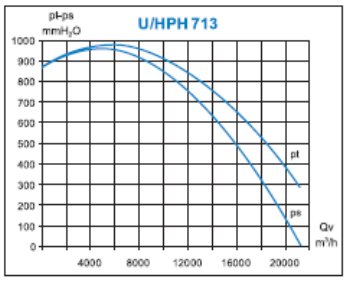
MODELS AND PERFORMANCES

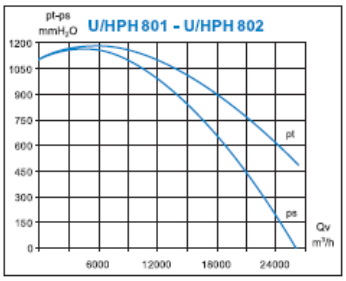


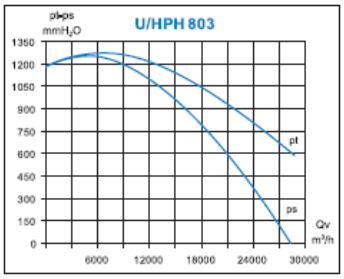


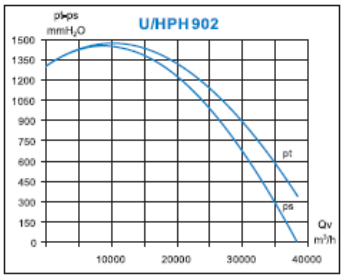


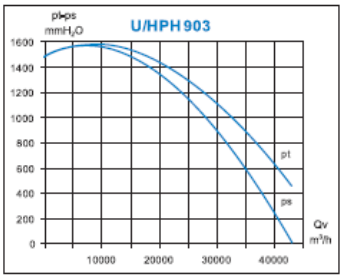












GENERAL FEATURES

The **U/AT** series smoke exhausts are designed to take up air and fumes, even if dusty, at **temperatures** of up to a maximum 250°C.

These centrifugal exhaust fans are particularly **used** in industrial and civil plants requiring better chimney draught.

The special design of the strong steel sheet **casings** makes it easy to install the fan on the side of the chimney. These fans can rotate clockwise RD and counter-clockwise LG (see discharge direction table).

The welded steel sheet **impellers** with radial blades have been perfectly balanced, both statically and dynamically and are connected directly to the motor shaft.

The **motors** installed are asynchronous, three-phase or single-phase, B5, self-ventilated, with IP55 protection, designed for continuous service and are equipped with an extra cooling impeller.

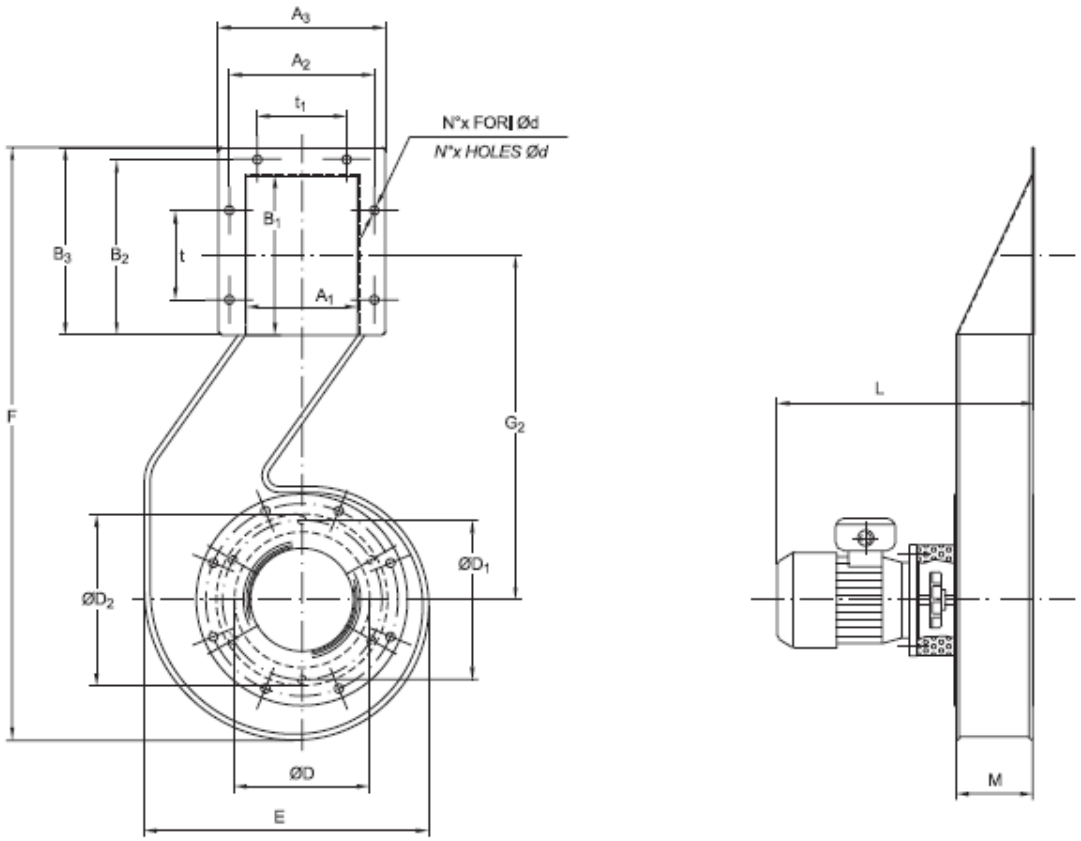
ACCESSORIES

RP inlet protection net
RA intaking joint
RF inlet flanged fitting
CA inlet counter-flange
CM outlet counter-flange

SPECIAL VERSIONS

AI made of stainless steel AISI 304 to extract corrosive fumes
AS anti-spark version in accordance with ANIMA-COAER standards.
HZ manufactured to work at Hz. 60
TH high protection for use in tropical climate with high degree of humidity
EX ATEX version zone 1 – zone 2 (GAS) and zone 21 – zone 22 (DUST)

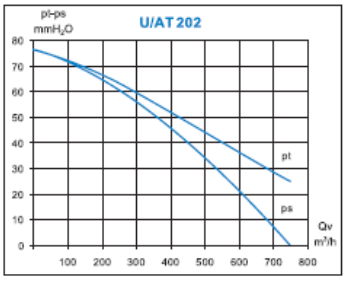
OVERALL DIMENSIONS

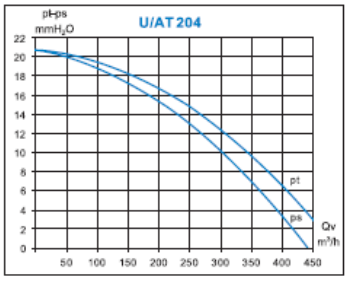


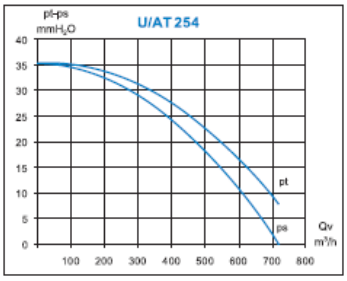
Ventilatore *Fan* Tipo/*Type*	A_1	B_1	A_2	B_2	A_3	B_3	t	t_1	N°x	ød	øD	$øD_1$	$øD_2$	E	F	G_2	L	M	kg
U/AT 202	140	200	182	220	210	235	112	112	6	11	169	200	215	355	745	435	335	96	16
U/AT 204																	325		15
U/AT 254	160	224	200	245	230	260	112	112	6	11	189	220	242	462	920	545	335	96	22
U/AT 304	180	250	219	271	250	285	2x112	112	8	11	205	241	265	522	1035	615	385	106	29

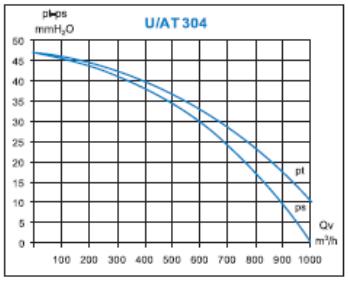
Dimensioni in mm — *Dimensions in mm*

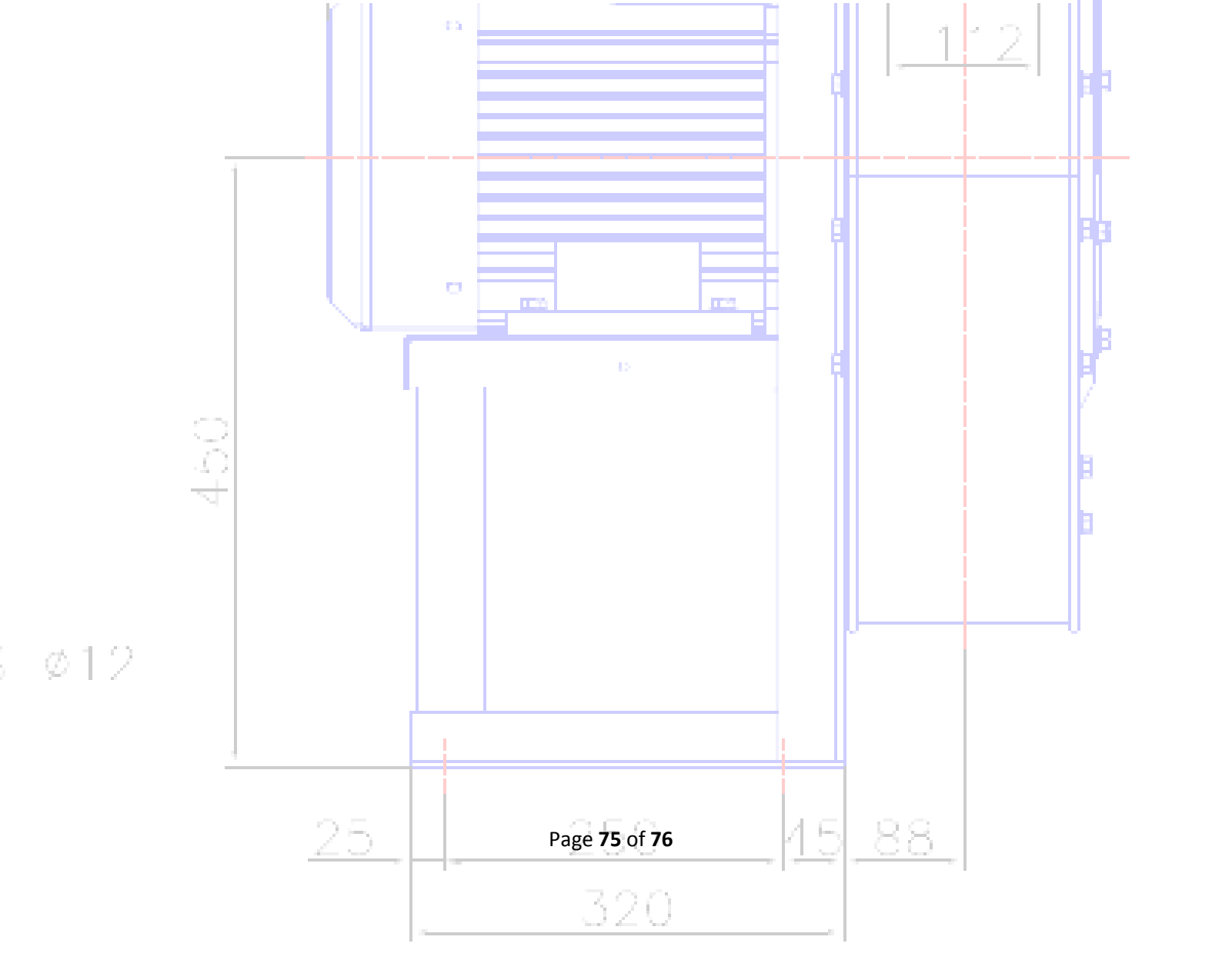
TEQNIVENT LIMITED
ENVIRONMENTAL SYSTEMS & EQUIPMENT

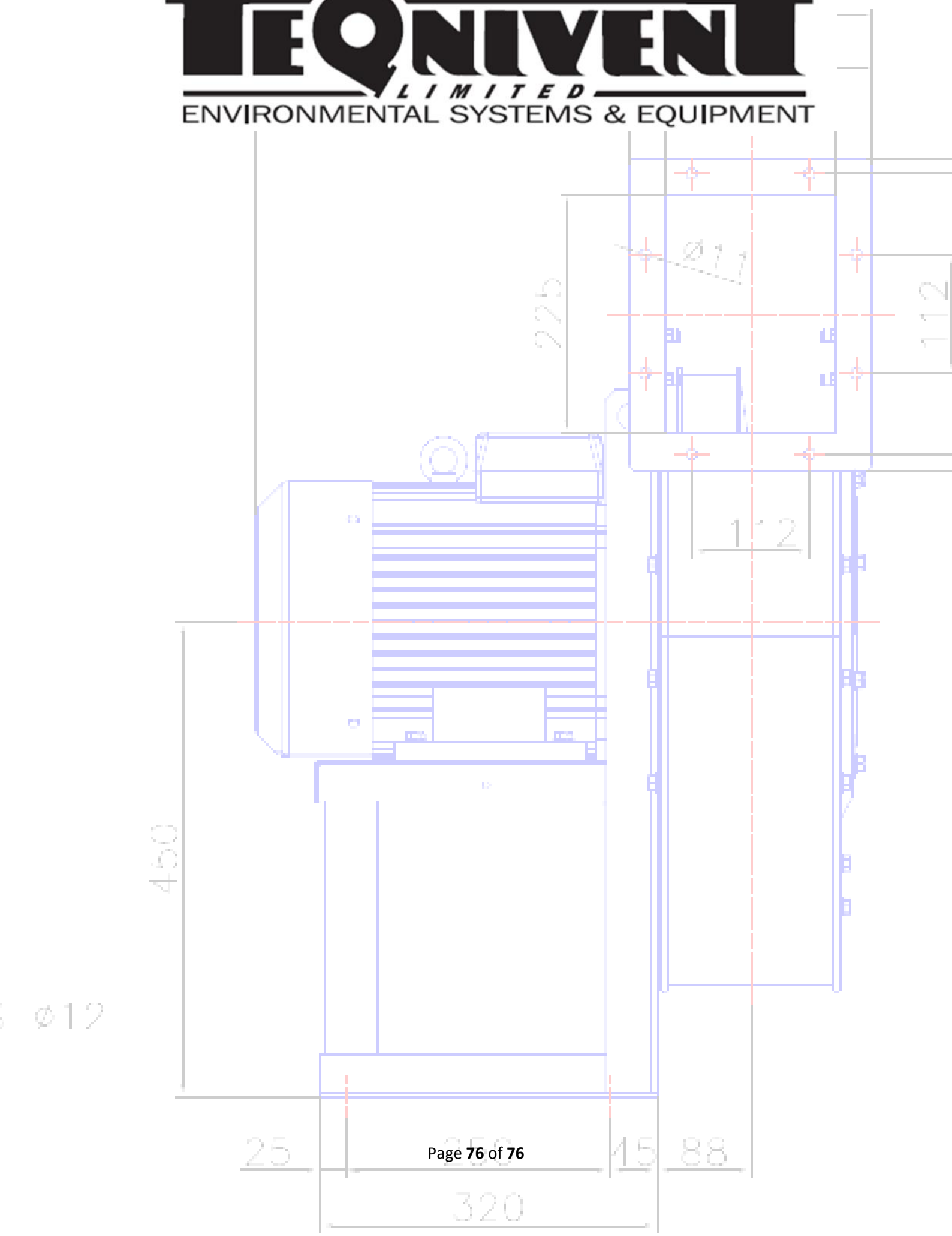











112
112
25
320
15
88