

### RTR.W 1662 3S.K



### RTR....W.K – RTP...W.K Series

2 refrigerant circuits - Cooling capacities from 70 to 474 kW

The units of this range have been conceived to be extremely flexible and to offer a wide range of custom-made options.

They are direct expansion and packaged water to air units, suitable for outdoor and indoor installation and for water source systems, realized with two independent cooling circuits, designed for air conditioning of quite large areas, prearranged to be connected to the air distribution ducts.

They represent, therefore, both from the performance and the economical points of view, the ideal solution for the summer cooling and the winter heating of supermarkets, commercial centres, exhibition halls, restaurants, hospital, facilities of food production and conservation and laboratories, where a water source system is present.

The available versions are the following: **RTR...W.K** only cooling **RTP...W.K** cycle inversion heat pump

Depending on the different air treatment requests, the units can be realized in the following three configurations, better indicated in the following pages:

#### 25 ... mixing of re-circulating and external air (2 dampers)

This configuration allows the mixing between the treated and the external air. There is an adjustable damper on the external air inlet for a correct mixing; the damper is pre-arranged for motorization. Usually this damper is ducted; on the contrary, it is possible, on demand, to supply a weatherproof protection. On the ambient air inlet there is a damper, also pre-arranged for motorization. The treated air flow is assured by the roof-top discharge fans, while the eventual exhaust from the ambient, so to avoid overpressure problems, must be provided externally to our unit.

# 35 ... mixing of re-circulating and fresh air and exhaust of the exceeding internal air through a suitable fan (3 dampers)

The version 3S is similar to the previous one, with an additional section and centrifugal fan, assuring the correct circulation of the inlet air. There is therefore no need to take out air from the ambient. The unit is provided with two dampers for the exhaust of the foul air and for the inlet of the fresh air, plus a third internal damper for the re-circulating air. The three dampers are co-ordinately hand controlled so to make possible the operation with all re-circulating air, with a mixing of re-circulating and external air or with all external air and total exhaust of the ambient air. The control of the dampers can be managed by an external signal 0-10V, or on demand, according to the thermo-hygrometric conditions (free-cooling operation).

## TR ... all re-circulating air (no mixing between re-circulating and external air)

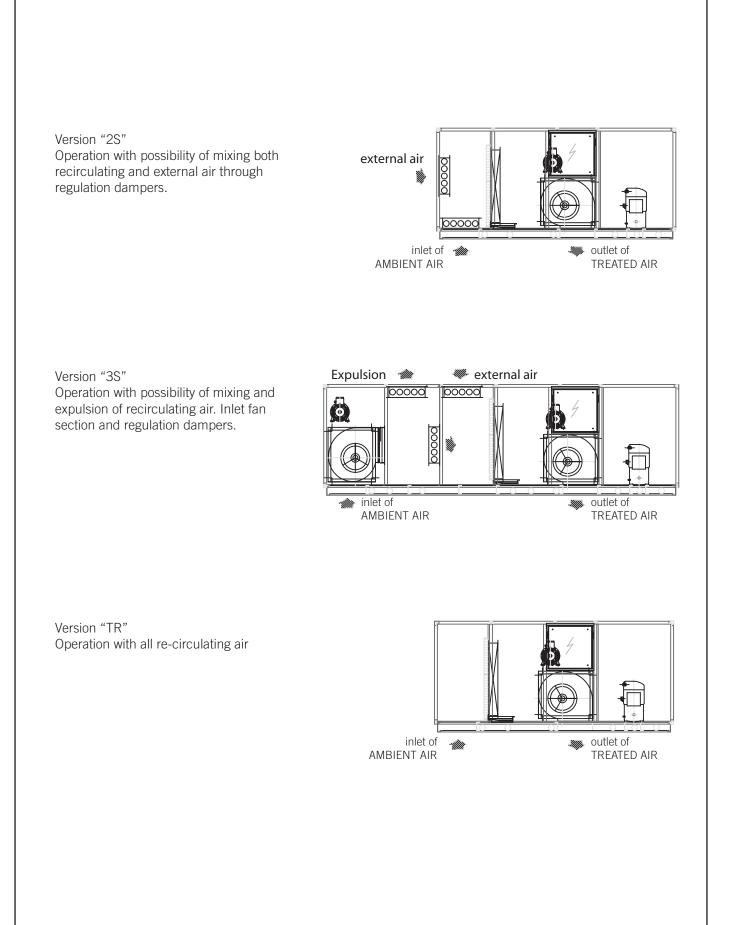
This is the basic version on which the 2S and 3S versions are based. The unit is pre-arranged for the air inlet directly from ambient.

#### Operating limits (standard unit):

RTR.W - AIR from 20 to 42°C - WATER from 25 to 40°C

**RTP.W** - **SUMMER**: air from 20 to 42°C - WATER from 25 to 40°C; **WINTER** : AIR from 15 to -10°C - WATER from 5 to 17°C







#### Main components:

**Structure** made of a base-frame in carbon steel profiles, protected against corrosion by an epoxy powder primer, kiln-polymerized, painted with polyester powder.

The structural frame is made in aluminium profiles and complete with aluminium panels; the internal sheet plates, between the different sections, are made of galvanized steel plate.

The external panels of the sections crossed by the treated air are of sandwich type with the internal surface in galvanized steel plate, insulated by a high-density foam polyurethane sheet. The parts of the base-frame and the internal steel plates licked by the treated air are thermally insulated with close-cell insulating material.

The external panels can be easily dismantled, so to allow the access to all the in-built components. The customer can access to the main components of the cooling circuits, to the air filters and to the electrical board through hinged doors and ¼ turn closures, so to make the maintenance operations easier.

High-efficiency scroll **compressor** (COP 3.37 under ARI conditions), with low sound level, internal heat protection, installed on rubber vibration dampers, supplied with crankcase heater when necessary.

Being 2 circuit units, in case of problem on one of the circuit, the 50% operation of the unit is anyway granted.

Air treatment coils made in copper pipes suitable for refrigerating liquids and high efficiency aluminium fins. There is a stainless steel drip pan for condensing coil.

Water cooled plate exchangers made in AISI 316L stainless steel, vacuum weldbrazed in oven with pure copper at 99,9%. In the case the exchangers should work as evaporators, they are thermally insulated with close-cell anti-condensing material.

**Filtering section** made of washable pleated filters in polyester with G4 metal frame (in conformity with EN779:2002 standard); the filtering cells are easily removable, through a hinged opening door, for the periodical cleaning and replacement operation.

Air discharge fan section with double-suction forward centrifugal fans, statically and dynamically balanced, installed on rubber-type vibration dampers. The fans are driven, through belt and pulley transmissions, by 4-pole tri-phase electrical motors on slides; the motor pulley is of variable diameter type. It is also provided with a device switching off the unit in case of accidental stop of the fan.

The units are realized with **two cooling circuits** to increase their reliability and to adjust the cooling capacity to the real requirements, keeping a high energy efficiency. Each circuit is made by a thermostatic expansion valve with external equalizer, liquid sight glass, safety valve, high and low pressure switches, high and low pressure gauges; in case of heat pump version, besides the above components, there are also a liquid receiver with shut-off valve, an additional thermostatic valve for winter operation, the 4-way valve for the cycle inversion and check valves on the liquid line.

**Electrical board** compliant to CE standard, complete with lock-door main switch, fuses for compressors, remote control switches, protection switches for the centrifugal fans motor, low tension auxiliary circuit and terminal board.

All units are provided with electronic **microprocessor** so to automatically manage all the functions of control, status alarm and diagnostics.

The units are supplied complete with R407C refrigerant charge and non-freezing oil.

Before delivery, all units are factory tested.

The units are made in conformity with the European standards in force (73/23/ CE – Low tension Directive, 89/336/CE – Electromagnetic compatibility Directive, 97/23/CE – PED Directive and 8/37/CE – Machine Directive).

#### Accessories

- **1M-2M** Centrifugal fans with higher available pressure: in case of ducts with high pressure drops, it is necessary to increase the available pressure to the inlet and outlet centrifugal fans, increasing the power of the electrical motor and consequently adjusting the transmission.
- **AF Clogged filters alarm:** differential pressure switch detecting an excessive pressure drop on the air filters due to their dirtiness; the control system of the unit displays the problem, without anyway switching off the unit.
- AFL Smoke alarm: in case of smoke, detected by an optical sensor, the unit is switched off and the eventual motorized dampers will be suitably positioned.
- **BC** Hot water heating coil: coil with copper pipes, aluminium fins and copper manifolds, used for the winter heating, The coil is fed by external hot water through a suitable 3-way mixing valve, controlled by the microprocessor.
- **BC1** Water post-heating coil: coil with copper pipes, aluminium fins and copper manifolds, placed afterwards the evaporating coil; this coil is used to keep the air temperature within the requested value, when the evaporator is used to lower the value of the ambient relative humidity. The coil is fed by external hot water through a suitable 3-way mixing valve, controlled by the microprocessor.
- **BG** Hot gas post-heating coil: coil with copper pipes, aluminium fins and copper manifolds; this coil is used to re-adjust the air temperature to the requested value, when the evaporator is used to lower the value of the ambient relative humidity. The coil is supplied by the hot gas coming out from the compressor, through a solenoid valve controlled by the microprocessor, therefore there is no need for external heating sources.
- F Free cooling operation: on the base of the comparison between the internal and the external temperature, the microprocessor controls the motorized dampers, so to use, in the best way, the energy in the external air to satisfy the heating loads. In this way, the working time of the compressors and of the external fans is remarkably reduced and, as a consequence, also the electrical consumption. On demand, it is possible an enthalpy control of free cooling, so to use the external air for controlling the internal relative humidity, when possible. In case the unit is also equipped with heat recovery, the standard version will be provided with 3 dampers. On demand, it is possible to supply a 5 damper version (to be selected on purpose).
- F5 F5 Pleated filters: glass fibre washable pleated filters with F5 metal frame (in conformity with EN779:2002). The filters are placed at the inlet of the air treatment coil, instead of the standard G4 filters. On request, so not to have high pressure drops, it is possible to have G4 or F5 filtering cells with a thickness of 98 mm, instead of 48 mm as per standard units.
- FT High-efficiency bag filters: Rigid bag filters with filtering efficiency F7 (in conformity with EN779:2002), complete with G4 pre-filters (in conformity with EN779:2002). The filters are placed at the inlet of the air treatment coil, so to assure a high filtering efficiency, without too high pressure drops. The length of the unit will increase of 500 mm.
- H Humidifier: steam production equipment of immersed electrode type, installed inside the unit and controlled by the microprocessor on a ON/OFF basis, so to keep, when necessary, the value of the treated air relative humidity within the pre-set limits. The steam produced by this equipment is distributed in the air through a suitable diffuser.
- IH RS 485 serial interface: electronic card allowing the connection of the unit to a supervision system, so to completely control it from a remote working station. On demand, it is possible to connect the unit to supervision systems with different communication protocols.



- MP Oversized microprocessor: compared to the standard microprocessor, it allows a multi-language display reading, a more detailed description of parameters, the possibility to manage up to 8 units, to manage non standard communication protocols, a better access to the program, to manage free-cooling units (already included in the units with option F).
- MS Motorized dampers: motor controlled by an external 0-10V signal, if not differently specified, when the standard version foresees manual dampers (already included in the units with option F).
- MTB Heating section with gas fired burner: additional in-built section, where one or more heating module of forced draft type are installed, each made of a gas fired burner and an air/smokes steel exchanger. This module will heat the air to be introduced in the ambient, allowing the air to lick the external surface of the firebox and the pipes of the exchanger. For the heat pump version this module can be used as an additional heating section or, for an only cooling unit, as an alternative to the heat pump itself. This section is realized in conformity with the regulations in force.
- MTC Heating section with boiler: additional in-built section, where one or more boilers of watertight condensing type are installed, producing hot water necessary to supply, through a close circuit, a heating coil. The water circuit is complete with circulator, non return and check valves. This section is realized in conformity with the regulations in force.
- PA Rubber-type vibration dampers: bell-shaped vibration dampers supports for insulating the unit (supplied in kit), made of base and bell in galvanized steel and natural rubber mixture.
- **PF** Water differential switch: it stops the compressor in the case the difference between the inlet and outlet water pressure from the plate exchanger is below a fixed value, indicating that the water flow is lower than the foreseen value
- PM Spring-type vibration dampers: spring-type vibration dampers support, for insulating the unit (supplied in kit), mainly indicated for installation in difficult and aggressive environments. Made of two steel plates containing a suitable quantity of harmonic steel springs.
- PQ Remote microprocessor: remote terminal, allowing to display the temperature and humidity values detected by probes, the alarm digital inputs, the outputs and the remote ON/OFF of the unit, to change and program of the parameters, the sound signal and the display of the present alarms.
- **RA** Anti-freeze heating coil: electrical heating coil with thermostat to protect the plate exchanger from freezing, in case of compressors' stop in the period of low ambient temperatures

- **RC Cross-flow heat recovery:** cross-flow static heat exchanger with aluminium plates, installed in a suitable section of the unit, so to partially allow the transfer to the fresh air of the heating load present in the exhaust air, increasing the energy efficiency of the unit. The exchanger has no moving components and therefore there is no energy consumption: the two air flows involved are hermetically divided and therefore there is no possibility of mixing. The condensing water is collected in drain pans in stainless steel and externally discharged. A by-pass damper is positioned side by side to the heat recovery. On demand, the heat recovery section can be realized in the 5 dampers version (please get in touch with our Sales Dept.)
- **RE** Electrical post-heating coil: electrical heaters of candle type with carbon steel fins, placed after the evaporating coil; the electrical heaters are used to re-adjust the air temperature to the requested value, when the evaporator is used to lower the relative humidity in the ambient. The coil is supplied by the electrical board of the units and it is controlled by the microprocessor on a several step basis.
- VP Pressostatic valve: device for the regulation of the condensing pressure, through the control of the plate condenser water flow. In case of cooling operation, the automatic valve reduces the water flow when decreasing the condensing pressure, so to ensure suitable working conditions also at a water temperature lower than the nominal one. For the heat pump units, this option must be installed with VSW in by-pass
- VS Solenoid valve: electro-valve for the liquid refrigerant at the compressor's stop.
- VSW Water solenoid valve: electro-valve stopping the water circulation on the plate exchanger, when the compressor switches off. In the case of heat pumps units provided with pressostatic valve (VP), it is necessary to order this option (so to by-pass the pressostatic valve in the winter operation).



#### RTR.W - RTP....W K Technical data with refrigerant R407C

ONLY COOLING - MODEL	RTR.W	572 K	692 K	842 K	812 K	992 K	1102 K	1302 K	1292 K	1472 K	1662 K	1992 K	2322 K	2492 K	2802 K	3102 K	3662
MODEL 2S - 3S																	
otal cooling capacity (1)	kW	70	84	103	99,1 57,5	115	138	159	159	174	211	251	290	321 186	365	399	474
ensible cooling capacity (1)	kW	40,6	50,2	62,2	57,5	69,8	81,2	92,4 31,3 54	93,7 32,6 53	102,6	129	150	168	186	212	228	271
otal absorbed power (1)	kW	13,7 29	15,4 30	19,6 35	19,6 35	23,3 42	27,9 54	31,3	32,6	36,1	39,7 70	48,3 83	55,3 95	62,6 107	65,7 116	73,9	89 158
compr.absorbed current (1)	A	29	30	35	35	42	54	54	53	66	70	83	95	107	116	132	158
MÓDEL 2S - 3S																	
otal cooling capacity (2)	kW	75,7	90,9	111	107	125	149	172	172	188	228	271	314	347	395	431	513
ensible cooling capacity (2)	kW	38	46,9	58,2	53,7	65,3	75,9	86,4	87,6	95,9	121	140	157	174	198	213	253
otal absorbed power (2)	kW	14	15,9	20,2	20,2	24	28,7 55	<u>32,2</u> 55	33,5 55	37,2	40,8	49,7	56,9	64,4	67,6	76	92
ompr.absorbed current (2)	A	30	31	36	36	43	55	55	55	68	72	86	98	110	120	136	163
MÓDELTR		(2.4								4.57	100		0.40	200			
otal cooling capacity (3)	kW	63,1	75,7	92,7	89,3	104	124	144	144	157	190	226	262	289	329	359	427
ensible cooling capacity (3)	kW	44,1	54,5 14,7	67,6	62,5 18,7	75,9 22,2	88,3	100	102	112	140	163	183	202	230	248	295
ptal absorbed power (3)	kW	13	14,/	18,7	18,/	22,2	26,6	29,8	31	34,4	37,8	46	52,7	59,6	62,6	70,4	85
ompr.absorbed current (3)	A	28	29	33	33	41	52	52	51	63	67	80	92	103	112	127	152
Compressors				2/.11			2/114	2/.11					2/114				
uantity	n	2	2	2 / sll	2	2	2/sll-t	2 / sll	2	2	2	2	2/sll-t	2	2	2	2
rcuits	nr.	2	2	2	2	2	2	2	2	2	2	120	2	2	2	2	2
lax current	A	40	44	54	54	64	80	82	88	108	108	128	164	164	208	208	250
nrush current	A	143	149	194	194	230	183	266	193	248	244	294	348	348	428	428	498
apacity steps	%	2	2	2	2 4	<u> </u>	4	<u> </u>	4	4	4 9	4	4 12	4	4	4	4
efrigerant charge for each circuit (1–2–3)	kg	5	3	4	4	5	5	6	6	6	9	10	12	13	14	15	1/
Vatercooled condenser 3)	<u>n.</u>	2.02	26	4.42	4.2	5.02	6.01	60	6.05	7()	0.06	10.02	12 51	12.00	10 0	17 11	20.4
/ater flow	l/s	3,03	3,6	4,43	4,3	5,02	6,01	6,9	6,95	7,62	9,06	10,83	12,51	13,89	15,58	17,11	20,4
Vater flow	mc/h	10,9	13,0	15,9 59	15,5	18,1	21,6	24,8	25,0	27,4	32,6 79	39,0 75	45,0	50,0	<u>56,1</u>	61,6	73,4
	kPa RTP.W	50 <b>572</b>	70 692	<b>842</b>	56 <b>812</b>	62 992	55 <b>1102</b>	60 <b>1302</b>	60 <b>1292</b>	60 1472	1662	1992	81 2322	74 <b>2492</b>	75 <b>2802</b>	68 <b>3102</b>	62 3662
HEATING PUMP - MODEL																	
eating capacity (4)	kW	65,4	77,3	95,6	91,9	108	129	147,3	152	167	197	223	257	287	318	350	419
tal absorbed power (4)	kW	16,3 31	18,4 32	23,4 38	25,3 40	30 49	36 63	40,3	39,7 62	44 76	48,3 81	68,5 112	78,4 128	88,7 143	93,2 156	104,8 177	127 212
mpr. absorbed current (4)	A	7	32 7	30 8	40	49	9	63 10	13	13		17	27	28	21	22	212
efrigerant charge for each circuit (4) EENTRIFUGAL FANS ON TREATED A			/	0	/	0	9	10	12	12	16	1/	21	20	21	22	24
					-					1							
luantity	n mc/h	11 000	12 200	15 400	17.600	10 000	20.900	22.000	27.500	20.000	22.000	20 500	41000	44.000	49.500	EE 000	66.000
tandard air flow Standard available pressure	mc/h Pa	11.000 <b>100</b>	13.200 <b>100</b>	15.400 <b>100</b>	100	19.800 <b>100</b>	100	100	100	30.800 <b>100</b>	33.000 <b>100</b>	38.500 <b>100</b>	1000 100	100 100	49.500 <b>100</b>	55.000 <b>100</b>	100
lotation speed		564			584						659	434	465			479	548
nput power	rpm kW	2,2	637 3	715	4	645 5,5	671 5,5	715 7,5	556 7,5	598 11	11	11	11	490 15	528 15	18,5	30
bsorbed current	A	5	7	9	9	12		15	1,5	22	22			70	70	40	57
Aotor Weight	kg	19,2	22,4	30,4	30,4	12 41,9	12 41,9	51	15 51	88,5	22 88,5	22 88,5	22 88,5	29 107	29 107	121	146
ound pressure level STD (5)	dB(A)	70	71	74	71	71	72	74	73	74	76	74	76	77	79	80	82
Available pressure - opt. 1M	Pa	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
Rotation speed	rpm	667	726	792	676	727	749	788	618	659	689	490	549	538	576	522	581
nput power			3	5,5	4	5,5	7,5	7,5		11	11	11	15	770			30
bsorbed current			J	JJ	4		1,5	1,5	7,5					15		19.5	
	kW	2,2	7	12	0	12		15	15		22		20	15	18,5	18,5	
	A	5	7	12	9 30.4	12	15	15	15 51	22	22	22	29	29	18,5 40	18,5 40	57
Notor Weight	A	5 19,2	7 22,4 71	12 41,9	30,4	12 41,9	15 51	51		22 51	88,5	22 88,5	29 107	29 107	18,5 40 121	18,5 40 121	57 146
Aotor Weight ound pressure level 1M (5)	A kg dB(A)	5 19,2 70	71	12 41,9 74	30,4 71	12 41,9 72	15 51 73	51 74	51 73	22 51 75	88,5 76	22 88,5 74	29 107 76	29 107 77	18,5 40 121 79	18,5 40 121 80	57 146 83
lotor Weight pund pressure level 1M (5) wailable_pressure - opt. 2M	A kg dB(A) <b>Pa</b>	5 19,2 70 <b>300</b>	71 <b>300</b>	12 41,9 74 <b>300</b>	30,4 71 <b>300</b>	12 41,9 72 <b>300</b>	15 51 73 <b>300</b>	51 74 <b>300</b>	51 73 <b>300</b>	22 51 75 <b>300</b>	88,5 76 <b>300</b>	22 88,5 74 <b>300</b>	29 107 76 <b>300</b>	29 107 77 <b>300</b>	18,5 40 121 79 <b>300</b>	18,5 40 121 80 <b>300</b>	57 146 83 <b>300</b>
lotor Weight ound pressure level 1M (5) Available pressure - opt. 2M otation speed	A kg dB(A) <b>Pa</b>	5 19,2 70 <b>300</b> 773	71 <b>300</b> 813	12 41,9 74 <b>300</b> 876	30,4 71 <b>300</b> 758	12 41,9 72 <b>300</b> 801	15 51 73 <b>300</b> 821	51 74 <b>300</b> 856	51 73 <b>300</b> 686	22 51 75 <b>300</b> 697	88,5 76 <b>300</b> 770	22 88,5 74 <b>300</b> 546	29 107 76 <b>300</b> 574	29 107 77 <b>300</b> 590	18,5 40 121 79 <b>300</b> 622	18,5 40 121 80 <b>300</b> 562	57 146 83 <b>300</b> 619
otor Weight Jund pressure level 1M. (5) <b>vailable pressure - opt. 2M</b> Jtation speed put power	A kg dB(A) Pa rpm kW	5 19,2 70 <b>300</b>	71 <b>300</b> 813 4	12 41,9 74 <b>300</b> 876 5,5	30,4 71 <b>300</b> 758 5,5	12 41,9 72 <b>300</b> 801 7,5	15 51 73 <b>300</b> 821 7,5	51 74 <b>300</b> 856 11	51 73 <b>300</b> 686 11	22 51 75 <b>300</b> 697 11	88,5 76 <b>300</b> 770 15	22 88,5 74 <b>300</b> 546 15	29 107 76 <b>300</b> 574 15	29 107 77 <b>300</b> 590 15	18,5 40 121 79 <b>300</b> 622 18,5	18,5 40 121 80 <b>300</b> 562 22	57 146 83 <b>300</b> 619 37
lotor Weight pund pressure level 1M (5) vrailable pressure - opt. 2M otation speed put power bsorbed current	A kg dB(A) Pa rpm kW A	5 19,2 70 <b>300</b> 773 3 7	71 <b>300</b> 813 4 9	12 41,9 74 <b>300</b> 876 5,5 12	30,4 71 <b>300</b> 758 5,5 12	12 41,9 72 <b>300</b> 801 7,5 15	15 51 73 <b>300</b> 821 7,5 15	51 74 <b>300</b> 856 11 22	51 73 <b>300</b> 686 11 22	22 51 75 <b>300</b> 697 11 22	88,5 76 <b>300</b> 770 15 29	22 88,5 74 <b>300</b> 546 15 29	29 107 76 <b>300</b> 574 15 29	29 107 77 <b>300</b> 590 15	18,5 40 121 79 <b>300</b> 622 18,5 40	18,5 40 121 80 <b>300</b> 562 22 42	57 146 83 <b>300</b> 619 37 69
otor Weight und pressure level 1M (5) vicailable pressure - opt. 2M otation speed put power bsorbed current otor Weight	A kg dB(A) Pa rpm kW A kg	5 19,2 70 <b>300</b> 773 3 7 22,4	71 <b>300</b> 813 4 9 30,4	12 41,9 74 <b>300</b> 876 5,5 12 41,9	30,4 71 <b>300</b> 758 5,5 12 41,9	12 41,9 72 <b>300</b> 801 7,5 15 51	15 51 73 <b>300</b> 821 7,5 15 51	51 74 <b>300</b> 856 11 22 88,5	51 73 <b>300</b> 686 11 22 88,5	22 51 75 <b>300</b> 697 11 22 88,5	88,5 76 <b>300</b> 770 15 29 107	22 88,5 74 <b>300</b> 546 15 29 107	29 107 76 <b>300</b> 574 15 29 107	29 107 77 <b>300</b> 590 15 29 107	18,5 40 121 79 <b>300</b> 622 18,5 40 121	18,5 40 121 80 <b>300</b> 562 22 42 140	57 146 83 <b>300</b> 619 37 69 207
otor Weight und pressure level 1M. (5) <b>vailable pressure - opt. 2M</b> tation speed put power bootwer totor Weight und pressure level 2M. (5)	A kg dB(A) Pa rpm kW A	5 19,2 70 <b>300</b> 773 3 7	71 <b>300</b> 813 4 9	12 41,9 74 <b>300</b> 876 5,5 12	30,4 71 <b>300</b> 758 5,5 12	12 41,9 72 <b>300</b> 801 7,5 15	15 51 73 <b>300</b> 821 7,5 15	51 74 <b>300</b> 856 11 22	51 73 <b>300</b> 686 11 22	22 51 75 <b>300</b> 697 11 22	88,5 76 <b>300</b> 770 15 29	22 88,5 74 <b>300</b> 546 15 29	29 107 76 <b>300</b> 574 15 29	29 107 77 <b>300</b> 590 15	18,5 40 121 79 <b>300</b> 622 18,5 40	18,5 40 121 80 <b>300</b> 562 22 42	57 146 83 <b>300</b> 619 37 69
otor Weight und pressure level 1M. (5) vailable pressure - opt. 2M pation speed put power bsorbed current otor Weight und pressure level 2M. (5) LECTRICAL DATA	A kg dB(A) Pa rpm kW A kg	5 19,2 70 <b>300</b> 773 3 7 22,4	71 <b>300</b> 813 4 9 30,4	12 41,9 74 <b>300</b> 876 5,5 12 41,9	30,4 71 <b>300</b> 758 5,5 12 41,9	12 41,9 72 <b>300</b> 801 7,5 15 51	15 51 73 <b>300</b> 821 7,5 15 51	51 74 <b>300</b> 856 11 22 88,5	51 73 <b>300</b> 686 11 22 88,5	22 51 75 <b>300</b> 697 11 22 88,5	88,5 76 <b>300</b> 770 15 29 107	22 88,5 74 <b>300</b> 546 15 29 107	29 107 76 <b>300</b> 574 15 29 107	29 107 77 <b>300</b> 590 15 29 107	18,5 40 121 79 <b>300</b> 622 18,5 40 121	18,5 40 121 80 <b>300</b> 562 22 42 140	57 146 83 <b>300</b> 619 37 69 207
otor Weight und pressure level 1M. (5) vivailable pressure - opt. 2M otation speed put power bsorbed current otor Weight und pressure level 2M. (5) LECTRICAL DATA tandard available pressure	A kg dB(A) Pa rpm kW A kg	5 19,2 70 <b>300</b> 773 3 7 22,4 70	71 <b>300</b> 813 4 9 30,4 72	12 41,9 74 <b>300</b> 876 5,5 12 41,9 74	30,4 71 <b>300</b> 758 5,5 12 41,9 72	12 41,9 72 <b>300</b> 801 7,5 15 51 72	15 51 73 <b>300</b> 821 7,5 15 51	51 74 <b>300</b> 856 11 22 88,5	51 73 <b>300</b> 686 11 22 88,5 73	22 51 75 <b>300</b> 697 11 22 88,5 75	88,5 76 <b>300</b> 770 15 29 107 76	22 88,5 74 <b>300</b> 546 15 29 107 75	29 107 76 <b>300</b> 574 15 29 107 76	29 107 77 <b>300</b> 590 15 29 107 78	18,5 40 121 79 <b>300</b> 622 18,5 40 121 80	18,5 40 121 80 <b>300</b> 562 22 42 140 80	57 146 83 <b>300</b> 619 37 69 207 83
lotor Weight Jund pressure level 1M (5) <b>ivailable_pressure - opt. 2M</b> Jutition speed put power borded current lotor Weight Jund pressure level 2M (5) <b>LECTRICAL DATA</b> <b>tandard available pressure</b> ax absorbed current	A kg dB(A) Pa rpm kW A kg	5 19,2 70 <b>300</b> 773 3 7 22,4 70	71 <b>300</b> 813 4 9 30,4 72 51	12 41,9 74 <b>300</b> 876 5,5 12 41,9 74	30,4 71 <b>300</b> 758 5,5 12 41,9 72 63	12 41,9 72 <b>300</b> 801 7,5 15 51 72 76	15 51 73 <b>300</b> 821 7,5 15 51 73 92	51 74 <b>300</b> 856 11 22 88,5 75 97	51 73 <b>300</b> 686 11 22 88,5 73 73	22 51 75 <b>300</b> 697 11 22 88,5 75 75	88,5 76 <b>300</b> 770 15 29 107 76 130	22 88,5 74 <b>300</b> 546 15 29 107 75	29 107 76 <b>300</b> 574 15 29 107 76 168	29 107 77 <b>300</b> 590 15 29 107 78 193	18,5 40 121 79 <b>300</b> 622 18,5 40 121 80 215	18,5 40 121 80 <b>300</b> 562 22 42 140 80 248	57 146 83 <b>300</b> 619 37 69 207 83 307
otor Weight und pressure level 1M (5) vailable pressure - opt. 2M station speed put power soorbed current otor Weight und pressure level 2M (5) LECTRICAL DATA tandard available pressure ax absorbed current ush current	A kg dB(A) Pa rpm kW A kg	5 19,2 70 <b>300</b> 773 3 7 22,4 70	71 <b>300</b> 813 4 9 30,4 72	12 41,9 74 <b>300</b> 876 5,5 12 41,9 74	30,4 71 <b>300</b> 758 5,5 12 41,9 72	12 41,9 72 <b>300</b> 801 7,5 15 51 72	15 51 73 <b>300</b> 821 7,5 15 51 73	51 74 <b>300</b> 856 11 22 88,5 75	51 73 <b>300</b> 686 11 22 88,5 73	22 51 75 <b>300</b> 697 11 22 88,5 75	88,5 76 <b>300</b> 770 15 29 107 76	22 88,5 74 <b>300</b> 546 15 29 107 75	29 107 76 <b>300</b> 574 15 29 107 76	29 107 77 <b>300</b> 590 15 29 107 78	18,5 40 121 79 <b>300</b> 622 18,5 40 121 80	18,5 40 121 80 <b>300</b> 562 22 42 140 80	57 146 83 <b>300</b> 619 37 69 207 83
lotor Weight ound pressure level 1M (5) vivailable pressure - opt. 2M otation speed put power sorbed current lotor Weight ound pressure level 2M (5) LECTRICAL DATA tandard available pressure ax absorbed current rush current vivailable pressure 1M	A kg dB(A) Pa rpm kW A kg	5 19,2 70 <b>300</b> 773 3 7 22,4 70 45 148	71 <b>300</b> 813 4 9 30,4 72 51 156	12 41,9 74 <b>300</b> 876 5,5 12 41,9 74 63 203	30,4 71 <b>300</b> 758 5,5 12 41,9 72 63 203	12 41,9 72 <b>300</b> 801 7,5 51 51 72 76 242	15 51 73 <b>300</b> 821 7,5 15 51 73 92 195	51 74 <b>300</b> 856 11 22 88,5 75 97 281	51 73 <b>300</b> 686 11 22 88,5 73 103 208	22 51 75 <b>300</b> 697 11 22 88,5 75 75 120 238	88,5 76 <b>300</b> 770 15 29 107 76 130 270	22 88,5 74 <b>300</b> 546 15 29 107 75 75 150 316	29 107 76 <b>300</b> 574 15 29 107 76 <b>1</b> 07 76	29 107 77 <b>300</b> 590 15 29 107 78 193 377	18,5       40       121       79       300       622       18,5       40       121       80       215       435	18,5       40       121       80 <b>300</b> 562       22       42       140       80       248       468	57 146 83 <b>300</b> 619 37 69 207 83 307 555
otor Weight und pressure level 1M (5) varialable pressure - opt. 2M put power sorbed current otor Weight und pressure level 2M (5) LECTRICAL DATA tandard available pressure ax absorbed current vsh current vailable pressure 1M ax absorbed current	A kg dB(A) Pa rpm kW A kg	5 19,2 70 <b>300</b> 773 3 3 7 22,4 70 45 148	71 <b>300</b> 813 4 9 30,4 72 51 156 51	12 41,9 74 <b>300</b> 876 5,5 12 41,9 74 63 203	30,4 71 <b>300</b> 758 5,5 12 41,9 72 63 203	12 41,9 72 <b>300</b> 801 7,5 15 51 72 76 242	15 51 73 800 821 7,5 15 51 73 92 195 95	51 74 <b>300</b> 856 11 22 88,5 75 97 281	51 73 <b>300</b> 686 11 22 88,5 73 103 208	22 51 75 <b>300</b> 697 11 22 88,5 75 75 120 238	88,5 76 <b>300</b> 770 15 29 107 76 130 270	22 88,5 74 <b>300</b> 546 15 29 107 75 150 316 150	29 107 76 <b>300</b> 574 15 29 107 76 168 352 175	29 107 77 <b>300</b> 590 15 5 29 107 78 193 377	18,5       40       121       79       300       622       18,5       40       121       80       215       435       226	18,5 40 121 80 <b>300</b> 562 22 42 140 80 <b>2</b> 48 468	57 146 83 <b>300</b> 619 37 69 207 83 307 555
otor Weight variable pressure - opt. 2M pation speed put power sorbed current otor Weight und pressure level 2M (5) LECTRICAL DATA tandard available pressure ax absorbed current vailable pressure 1M ax absorbed current vailable pressure 1M ax absorbed current	A kg dB(A) Pa rpm kW A kg	5 19,2 70 <b>300</b> 773 3 7 22,4 70 45 148	71 <b>300</b> 813 4 9 30,4 72 51 156	12 41,9 74 <b>300</b> 876 5,5 12 41,9 74 63 203	30,4 71 <b>300</b> 758 5,5 12 41,9 72 63 203	12 41,9 72 <b>300</b> 801 7,5 51 51 72 76 242	15 51 73 <b>300</b> 821 7,5 15 51 73 92 195	51 74 <b>300</b> 856 11 22 88,5 75 97 281	51 73 <b>300</b> 686 11 22 88,5 73 103 208	22 51 75 <b>300</b> 697 11 22 88,5 75 75 120 238	88,5 76 <b>300</b> 770 15 29 107 76 130 270	22 88,5 74 <b>300</b> 546 15 29 107 75 75 150 316	29 107 76 <b>300</b> 574 15 29 107 76 107 76	29 107 77 <b>300</b> 590 15 29 107 78 193 377	18,5       40       121       79       300       622       18,5       40       121       80       215       435	18,5       40       121       80 <b>300</b> 562       22       42       140       80       248       468	57 146 83 <b>300</b> 619 37 69 207 83 307 555
lotor Weight ound pressure level 1M (5) vivailable pressure - opt. 2M otation speed put power sorbed current lotor Weight ound pressure level 2M (5) LECTRICAL DATA tandard available pressure ax absorbed current rush current vivailable pressure 1M ax absorbed current rush current vivailable pressure 2M	A kg dB(A) Pa rpm kW A kg	5 19,2 70 <b>300</b> 773 3 7 22,4 70 45 148 45 148	71 <b>300</b> 813 4 9 30,4 72 51 156 51 156	12 41,9 74 <b>300</b> 876 5,5 12 41,9 74 63 203 66 206	30,4 71 <b>300</b> 758 5,5 12 41,9 72 63 203 63 203	12 41,9 72 <b>300</b> 801 7,5 15 51 72 76 242 76 242	15 51 73 <b>300</b> 821 7,5 15 51 73 92 195 95 198	51 74 <b>300</b> 856 11 22 88,5 75 97 281 97 281	51 73 <b>300</b> 686 11 22 88,5 73 103 208 103 208	22 51 75 <b>300</b> 697 11 22 88,5 75 120 238 113 231	88,5 76 <b>300</b> 770 15 29 107 76 130 270 130 270	22 88,5 74 546 15 29 107 75 150 316 150 316	29 107 76 <b>300</b> 574 15 29 107 76 107 76 168 352 175 359	29 107 77 <b>300</b> 590 15 29 107 78 193 377	18,5       40       121       79 <b>300</b> 622       18,5       40       121       80       215       435       226       446	18,5 40 121 80 562 22 42 42 140 80 248 468 248 468	57 146 83 <b>300</b> 619 37 69 207 83 307 555 307 555
otor Weight und pressure level 1M (5) vivailable pressure - opt. 2M otation speed put power bsorbed current otor Weight LECTRICAL DATA tandard available pressure ax absorbed current viailable pressure 1M ax absorbed current viailable pressure 2M ax absorbed current viailable pressure 2M ax absorbed current	A kg dB(A) Pa rpm kW A kg	5 19,2 70 <b>300</b> 773 3 7 22,4 45 148 45 148 45 148	71 <b>300</b> 813 4 9 30,4 72 51 156 51 156	12 41,9 74 <b>300</b> 876 5,5 12 41,9 74 63 203 66 206	30,4 71 <b>300</b> 758 5,5 12 41,9 72 63 203 63 203 63 203	12 41,9 72 800 801 7,5 15 51 72 76 242 76 242 76 242	15 51 73 <b>300</b> 821 7,5 15 51 73 92 195 95 198	51 74 <b>300</b> 856 11 22 88,5 75 97 281 97 281 97 281	51 73 <b>300</b> 686 11 22 88,5 73 103 208 103 208	22 51 75 <b>300</b> 697 11 22 88,5 75 120 238 113 231	88,5 76 <b>300</b> 770 15 29 107 76 130 270 130 270	22 88,5 74 546 15 29 107 75 150 316 150 316	29 107 76 <b>300</b> 574 15 29 107 76 107 76 168 352 175 359	29 107 77 <b>300</b> 590 15 29 107 78 193 377	18,5       40       121       79       300       622       18,5       40       121       80       215       435       226       226	18,5 40 121 80 562 22 42 42 140 80 248 468 248 468	57 146 83 <b>300</b> 619 37 69 207 83 307 555 307 555
lotor Weight ound pressure level 1M (5) varilable pressure - opt. 2M totion speed put power bsorbed current totor Weight ound pressure level 2M (5) LECTRICAL DATA tandard available pressure ax absorbed current rush current vailable pressure 1M ax absorbed current rush current vailable pressure 2M lax absorbed current rush current vailable pressure 2M lax absorbed current rush current	A kg dB(A) Pa rpm kW A kg dB(A) A A A A A	5 19,2 70 <b>300</b> 773 3 7 22,4 70 45 148 45 148	71 <b>300</b> 813 4 9 30,4 72 51 156 51	12 41,9 74 <b>300</b> 876 5,5 12 41,9 74 63 203 66 206	30,4 71 <b>300</b> 758 5,5 12 41,9 72 63 203 63 203	12 41,9 72 <b>300</b> 801 7,5 15 51 72 76 242 76 242	15 51 73 800 821 7,5 15 51 73 92 195 95	51 74 <b>300</b> 856 11 22 88,5 75 97 281 97 281	51 73 <b>300</b> 686 11 22 88,5 73 103 208	22 51 75 <b>300</b> 697 11 22 88,5 75 75 120 238	88,5 76 <b>300</b> 770 15 29 107 76 130 270	22 88,5 74 <b>300</b> 546 15 29 107 75 150 316 150	29 107 76 <b>300</b> 574 15 29 107 76 168 352 175	29 107 77 <b>300</b> 590 15 5 29 107 78 193 377	18,5       40       121       79 <b>300</b> 622       18,5       40       121       80       215       435       226       446	18,5 40 121 80 <b>300</b> 562 22 42 140 80 <b>2</b> 48 468	57 146 83 <b>300</b> 619 37 69 207 83 307 555
otor Weight und pressure level 1M. (5) vivailable pressure - opt. 2M pation speed put power sorbed current otor Weight und pressure level 2M (5) LECTRICAL DATA tandard available pressure ax absorbed current viailable pressure 1M ax absorbed current viailable pressure 2M ax absorbed current rush current viailable pressure 2M ax absorbed current pinensions	A kg dB(A) Pa rpm kW A kg dB(A) A A A A A A	5 19,2 70 <b>300</b> 773 3 7 22,4 70 45 148 45 148 45 148 45	71 <b>300</b> 813 4 9 30,4 72 51 156 51 156 53 158	12 41,9 74 <b>300</b> 876 5,5 12 41,9 74 63 203 66 206 66 206	30,4 71 <b>300</b> 758 5,5 12 41,9 72 63 203 63 203 63 203	12 41,9 72 <b>300</b> 801 7,5 15 51 72 76 242 76 242 79 245	15 51 73 <b>300</b> 821 7,5 51 73 92 195 95 198 95 198	51 74 <b>300</b> 856 11 22 88,5 75 97 281 97 281 104 288	51 73 <b>300</b> 686 11 22 88,5 73 103 208 103 208 103 208	22 51 75 <b>300</b> 697 11 22 88,5 75 120 238 113 231 120 238	88,5 76 <b>300</b> 770 15 29 107 76 130 270 130 270 130 270	22 88,5 74 <b>300</b> 546 15 29 107 75 150 316 150 316 157 323	29 107 76 <b>300</b> 574 15 29 107 76 168 352 175 359 1755 359	29 107 77 <b>300</b> 590 15 29 107 78 193 377 193 377 193 377	18,5       40       121       79       300       622       18,5       40       121       80       215       435       226       446       446	18,5 40 121 80 <b>300</b> 562 22 42 42 140 80 248 468 248 468 248 468 250 470	57 146 83 <b>300</b> 619 37 69 207 83 83 307 555 307 555 319 567
lotor Weight ound pressure level 1M (5) vivailable pressure - opt. 2M otation speed put power bsorbed current lotor Weight chore Weight ound pressure level 2M (5) ELECTRICAL DATA tandard available pressure lax absorbed current rush current vivailable pressure 1M lax absorbed current rush current vivailable pressure 2M lax absorbed current rush current vivailable pressure 2M lax absorbed current rush current Dimensions ength vers. 25 and TR	A kg dB(A) Pa rpm kW A kg dB(A) A A A A A A A A A M M	5 19,2 70 <b>300</b> 773 3 7 7 22,4 70 45 148 45 148 45 148 45 148 45 148	71 <b>300</b> 813 4 9 30,4 72 51 156 51 156 53 158 3.300	12 41,9 74 <b>300</b> 876 5,5 12 41,9 74 63 203 66 206 66 206 3.300	30,4 71 <b>300</b> 758 5,5 12 41,9 72 63 203 63 203 63 203 63 203 63 203	12 41,9 72 <b>300</b> 801 7,5 51 72 76 242 76 242 79 245 3,800	15 51 73 <b>300</b> 821 7,5 51 73 92 195 95 198 95 198 95 198 3,800	51 74 <b>300</b> 856 11 22 88,5 7 7 97 281 97 281 97 281 104 288 3.800	51 73 686 686 11 22 88,5 73 103 208 103 208 103 208 110 215 4.400	22 51 75 <b>300</b> 697 11 22 88,5 75 120 238 113 231 120 238 120 238	88,5 76 300 770 15 29 107 76 76 130 270 130 270 130 270 137 277 4,400	22 88,5 74 <b>300</b> 546 15 29 107 75 150 316 150 316 157 323 5.000	29 107 76 <b>300</b> 574 15 29 107 76 <b>1</b> 07 76 <b>1</b> 68 352 <b>1</b> 75 359 <b>1</b> 755 359 <b>5</b> .000	29 107 77 <b>300</b> 590 15 29 107 78 193 377 193 377 193 377 193 377 193 377	18,5       40       121       79       300       622       18,5       40       121       80       215       435       226       446       226       446       5.000	18,5       40       121       80       300       562       22       42       140       80       248       468       248       468       250       470       5.000	57 146 83 300 619 37 69 207 83 307 555 307 555 319 567 5.000
lotor Weight ound pressure level 1M (5) vivailable pressure - opt. 2M otation speed put power bosorbed current lotor Weight und pressure level 2M (5) LECTRICAL DATA tandard available pressure ax absorbed current viailable pressure 1M ax absorbed current visilable pressure 2M ax absorbed current visilable pressure 3M ax absorbed current ax abso	A kg dB(A) Pa rpm kW A kg dB(A) B A A A A A A A A A M M M M	5 19,2 70 <b>300</b> 773 3 7 22,4 70 45 148 45 148 45 148 45 148 45 148 45 148	71 <b>300</b> 813 4 9 30,4 72 51 156 51 156 53 158 <b>3.300</b> 4.900	12 41,9 74 <b>300</b> 876 5,5 12 41,9 74 63 203 66 206 66 206 66 206 3.300 4.900	30,4 71 <b>300</b> 758 5,5 12 41,9 72 63 203 63 203 63 203 63 203 63 203 63 203	12 41,9 72 <b>300</b> 801 7,5 15 51 72 76 242 76 242 76 242 79 245 <b>3.800</b> 5.700	15 51 73 <b>300</b> 821 7,5 15 51 73 92 195 95 198 95 198 <b>3</b> .800 5.700	51 74 <b>300</b> 856 11 22 88,5 75 97 281 97 281 97 281 104 288 3.800 5.700	51 73 686 11 22 88,5 73 103 208 103 208 103 208 110 215 4.400 6.800	22 51 75 <b>300</b> 697 11 22 88,5 75 120 238 113 231 120 238 4.400 6.800	88,5 76 300 770 15 29 107 76 130 270 130 270 137 277 137 277 4,400 6,800	22 88,5 74 <b>300</b> 546 15 29 107 75 150 316 150 316 157 323 5.000 8.300	29 107 76 <b>300</b> 574 15 29 107 76 168 352 175 359 1755 359 1755 359 5.000 8.300	29 107 77 <b>300</b> 590 15 29 107 78 193 377 193 377 193 377 193 377 5.000 8.300	18,5 40 79 300 622 18,5 40 121 18,5 40 121 215 435 226 446 226 446 5.000 8.300	18,5 40 121 80 <b>300</b> 562 22 42 42 140 80 80 248 468 248 468 248 468 250 470 5.000 8.300	57 146 83 <b>300</b> 619 37 69 207 207 83 307 555 307 555 307 555 319 567 5,000 8,300
lotor Weight ound pressure level 1M (5) vivailable pressure - opt. 2M otation speed oput power bsorbed current lotor Weight ound pressure level 2M (5) ELECTRICAL DATA itandard available pressure lax absorbed current vivailable pressure 1M lax absorbed current vivailable pressure 2M lax absorbed current vivailable pressure 2M lax absorbed current inush current vivailable pressure 2M lax absorbed current pimensions ength ves. 2S and IR ength ves. 3S	A kg dB(A) Pa rpm KW A kg dB(A) A A A A A A A A A M M M M M M	5 19,2 70 <b>300</b> 773 3 7 22,4 70 45 148 45 148 45 148 45 148 45 148 2,300 4,900 2,100	71 <b>300</b> 813 4 9 30,4 72 51 156 51 156 53 158 3.300 4.900 2.100	12 41,9 74 <b>300</b> 876 5,5 12 41,9 74 63 203 66 206 66 206 66 206 3,300 4,900 2,100	30,4 71 <b>300</b> 758 5,5 12 41,9 72 63 203 63 203 63 203 63 203 63 203 63 203 63 203	12 41,9 72 <b>300</b> 801 7,5 15 51 72 76 242 76 242 76 242 79 245 3.800 5.700 2.100	15 51 73 821 7,5 15 51 73 92 195 95 198 95 198 95 198 3.800 5.700 2.100	51 74 300 856 11 22 88,5 75 97 281 97 281 97 281 104 288 3.800 5.700 2.100	51 73 <b>300</b> 686 11 22 885,5 73 103 208 103 208 103 208 110 215 215 215 2300	22 51 75 <b>300</b> 697 11 22 88,5 75 120 238 113 231 120 238 4.400 6.800	88,5 76 300 770 15 29 107 76 130 270 130 270 137 277 137 277 4,400 6,800	22 88,5 74 <b>300</b> 546 15 29 107 75 150 316 150 316 157 323 5.000 8.300	29 107 76 <b>300</b> 574 15 29 107 76 168 352 175 359 1755 359 1755 359 5.000 8.300	29 107 77 <b>300</b> 590 15 29 107 78 193 377 193 377 193 377 193 377 5.000 8.300	18,5 40 79 300 622 18,5 40 121 18,5 40 121 215 435 226 446 226 446 5.000 8.300	18,5 40 121 80 <b>300</b> 562 22 42 42 140 80 80 248 468 248 468 248 468 250 470 5.000 8.300	57 146 83 <b>300</b> 619 37 69 207 207 83 307 555 307 555 307 555 319 567 5,000 8,300
lotor Weight ound pressure level 1M (5) Varilable pressure - opt. 2M otation speed put power bsorbed current lotor Weight cond pressure level 2M (5) ELECTRICAL DATA (standard available pressure lax absorbed current varilable pressure 1M lax absorbed current varilable pressure 2M lax absorbed current rush current Varilable pressure 2M lax absorbed current rush current Dimensions ength vers. 3S Woth eight	A kg dB(A) Pa rpm kW A kg dB(A) A A A A A A A A A M M M mm mm mm	5       19,2       70       300       773       3       7       22,4       70       45       148       45       148       47       150       3.300       4.900       2.100       1.675	71 <b>300</b> 813 4 9 30,4 72 51 156 51 156 53 158 3.300 2.100 1.675	12 41,9 74 <b>300</b> 876 5,5 12 41,9 74 63 203 66 206 66 206 <b>66</b> 206 <b>3.300</b> 4.900 2.100 1.675	30,4 71 <b>300</b> 758 5,5 12 41,9 758 63 203 63 203 63 203 63 203 63 203 63 203 63 203 63 203 63 203 63 203 63 203 63 203 758 205 205 758 205 758 205 758 205 758 205 758 205 758 205 758 205 758 205 758 205 205 205 205 205 205 205 205 205 205	12 41,9 72 <b>300</b> 801 7,5 15 51 72 76 242 76 242 76 242 79 245 3.800 5.700 2.100 1.750	15 51 73 <b>300</b> 821 7,5 15 51 73 92 195 95 198 95 198 95 198 3.800 5.700 2.100	51 74 <b>300</b> 856 11 22 88,5 75 97 281 97 97 97 97 97 97 97 97 97 97 97 97 97	51 73 <b>300</b> 686 11 22 88,5 73 103 208 103 208 103 208 110 215 4,400 6,800 2,300 2,100	22 51 75 <b>300</b> 697 11 22 88,5 75 120 238 113 231 120 238 113 231 120 238 4,400 6,800 2,300 2,100	88,5 76 <b>300</b> 770 15 29 107 76 130 270 130 270 137 277 137 277 137 277 4.400 6.800 2.300 2.100	22 88,5 74 <b>300</b> 546 15 29 107 75 316 150 316 150 316 157 323 5.000 8.300 2.300 2.500	29 107 76 <b>300</b> 574 15 29 107 76 168 352 175 359 1755 359 1755 359 5.000 8.300 2.300	29 107 77 <b>300</b> 590 15 29 107 78 193 377 193 377 193 377 193 377 5.000 8.300 2.300 2.500	18,5 40 121 79 622 18,5 40 121 18,5 40 121 80 215 435 226 446 226 446 226 446 5.000 8.300 2.300 2.500	18,5 40 121 80 562 22 42 42 40 80 248 468 248 468 248 468 248 468 250 470 5.000 8.300 2.300 2.500	57 146 83 <b>300</b> 619 207 83 <b>307</b> 555 <b>307</b> 555 <b>307</b> 555 <b>307</b> 555 <b>307</b> 555 <b>307</b> 555 <b>307</b> 555 <b>307</b> 555 <b>307</b> 555
abolice Unient Jourd pressure level 1M (5) Available pressure - opt. 2M Idiation speed nput power Absorbed current Johor Weight Jourd Weight Jourd Pressure level 2M (5) ELECTRICAL DATA Standard available pressure Max absorbed current nrish current Available pressure 1M Aax absorbed current nrish current Available pressure 2M Aax absorbed current nrish current Dimensions ength vers. 35 Width Height Weight RIR Weight RIR	A kg dB(A) Pa rpm KW A kg dB(A) A A A A A A A A A M M M M M M	5 19,2 70 <b>300</b> 773 3 7 22,4 70 45 148 45 148 45 148 45 148 45 148 2,300 4,900 2,100	71 <b>300</b> 813 4 9 30,4 72 51 156 51 156 53 158 3.300 4.900 2.100	12 41,9 74 <b>300</b> 876 5,5 12 41,9 74 63 203 66 206 66 206 66 206 3,300 4,900 2,100	30,4 71 <b>300</b> 758 5,5 12 41,9 72 63 203 63 203 63 203 63 203 63 203 63 203 63 203	12 41,9 72 <b>300</b> 801 7,5 15 51 72 76 242 76 242 76 242 79 245 3.800 5.700 2.100	15 51 73 821 7,5 15 51 73 92 195 95 198 95 198 95 198 3.800 5.700 2.100	51 74 300 856 11 22 88,5 75 97 281 97 281 97 281 104 288 3.800 5.700 2.100	51 73 <b>300</b> 686 11 22 885,5 73 103 208 103 208 103 208 110 215 215 215 2300	22 51 75 <b>300</b> 697 11 22 88,5 75 120 238 113 231 120 238 4.400 6.800	88,5 76 300 770 15 29 107 76 130 270 130 270 137 277 137 277 4,400 6,800	22 88,5 74 <b>300</b> 546 15 29 107 75 150 316 150 316 157 323 5.000 8.300	29 107 76 <b>300</b> 574 15 29 107 76 168 352 175 359 1755 359 1755 359 5.000 8.300	29 107 77 <b>300</b> 590 15 29 107 78 193 377 193 377 193 377 193 377 5.000 8.300	18,5 40 79 300 622 18,5 40 121 18,5 40 121 215 435 226 446 226 446 5.000 8.300	18,5 40 121 80 <b>300</b> 562 22 42 42 140 80 80 248 468 248 468 248 468 250 470 5.000 8.300	57 146 83 <b>300</b> 619 37 69 207 83 307 555 307 555 307 555 319 567 5.000 8.300

(1) Ambient air temperature 27°C / 50% R.H. - Condensing water 29/35°C; 30% fresh air
(2) Ambient air temperature 27°C / 50% R.H. - Condensing water 29/35°C; 50% fresh air
(3) Inlet air to the internal coil 27°C / 50% R.H. - Condensing water 29/35°C - External air 35°C
(4) Internal air temperature: 29°C - External air temperature: +5°C / 70% R.H.
(5) Average value estimated at 1 m from the unit (for versions 25 and 1R) in free field in conformity to UNI EN 3746, with ducted air outlet fan

