Horizontal Packaged and Split Air Conditioners

AHN 064 to 304
EHN/CHN 064 to 304

6.0 to 29.2 kW

6.4 to 29.4 kW

HFC 410A

Engineering Data Manual
EDM AECHN-A.1GB
Date : June 2008
Supersedes : None

Airwell

General

The units AHN (Packaged units), CHN/EHN (Split units) are horizontal air conditioners, Heat Pump designed to operate with ducts, for both indoor and outdoor sections.

The whole range of Horizontal Units is made in two separate sections and can be installed in the stand-alone version or in the split version (to be specified when order).

In case of compact version the unit is supplied complete with R410A refrigerant gas, whereas split units are supplied with N_2.

The units are delivered fully tested and wired and they are ready for the easy plug and play installation.

R410A refrigerant gas and Scroll compressor

Although R410A is a blend, it behaves like a pure gas and features a negligible glide. Thanks to its outstanding heat conductivity, R410A contributes towards achieving high system efficiency. Better performances are achieved thanks to use of SCROLL compressors too, that have been expressly redesigned for applications with the new gas and they are now more compact, more silent and more efficient than before.

Flexibility and efficiency

The units are designed to fully satisfy any application system need thanks to a complete range, versions and configurations and with the goal of guaranteeing high efficiency at any working conditions. As the units are checked in the factory, during installation only the electrical, air and condensate drain connections need to be made. They have also been developed thinking to make easy the maintenance operations they need and the installation too, being the shortest in the market.

Structure

Self supporting panels structure in steel sheet protected by oven-dried polyester paint for corrosion resistance. The panels are thermally and acoustically insulated with a sheet 10mm high of polyethylene foam high density.

Fans

The external and internal sections of the whole range are both supplied with centrifugal fans with dual intakes. Ventilation characteristics can be adjusted by pulley (iron-made) and belt regulation for models 164 to 304 and direct driven motor fan for models 064 to 124.

Refrigerant circuit

In copper tubing in accordance with EN-12375. Thermostatic expansion valve from model 164 to 304 and restrictor for the rest of the range (from 064 to 124) The restrictor is supplied also for the whole range of the external units. Fitted tapping points for reading pressure gauges and refrigerant load. Heat Pump versions are fitted with a 4-way valve activated by solenoid valve and liquid accumulator on suction side to protect the compressor against liquid filling strokes.

Exchangers

Direct expansion finned exchangers made from copper pipes and aluminium fins, adequately distanced and dimensioned to ensure the maximum heat exchange efficiency.

Air filter

Washable air filter easy-to-remove with galvanized plate frame and protective mesh. Standard class G2 filtering efficiency (according with EN 779).

Electrical panel and safety devices

The whole units are fitted with pressostats for high pressure. Temperature probes for low pressure control and for compressor discharge temperature, both managed by the main unit controller. The electrical panel complies with 73/23 CEE, 89/392 CEE, 89/336 CEE Directives and with EN-60204-I.

The electrical panel, completely wired, includes the safety ON-OFF mechanical main door lock isolator switch, compressors and fans fuses and the thermal overload protection of the fans. Phase sequence control and earth connections are fitted in all models.

Options and accessories

- **Exchangers :** By request the units can be equipped with copper fins coils or aluminium fins covered with polyurethane for installations in aggressive environments or Blygold covering for corrosive environments.
- **Pressure condensing control :** In addition to the Standard "on-off" control to be found on all models, may be installed a proportional condensing control. This control can operate through blower's speed variation from models 064 to 124 or through airflow variation (managing the dampers in the air-intake) for the rest of the models (164 to 304) or through frequency variation. With ARIA control from size 164.
- **Electrical heaters :** Heating elements in nickel-chrome wire supplied together with contactors, fuses and relative switch. The heating element is protected by two temperature limiting devices, one with automatic reset and the second with manual reset (see the correspondent chapter). The electrical heater is placed in the evaporating section, on the supply air intake. Look table at corresponding chapter.
- **Hot water coil :** A water coil made of copper pipes and aluminium fins can be placed in the return air intake of Only Cooling unit). There is the possibility of delivering a 3-way valve for opening and closing the water flow. Look at correspondent chapter.
- **Thermostat :** Wall-mounted thermostat connected to the unit through 2 cables. According with the kind of wall-thermostat, the timer setting, pLAN connection and interfacing with the more common BMS are available.
- **Free-Cooling :** It consists of a module of 2 external motorized dampers that regulate return/external air in order to save energy.
- **Air quality :** We can offer several optional to maintain a high level of comfort and healthiness of the air such as dirty filter detector.
- **Powered fan :** In case of special requirements please contact Technical Department.
- **Power supply :** Possibility of adapting to different voltages and frequencies on demand.
- **Vibration absorbers :** Possibility of supplying the unit with vibration absorbers.
- **Compressor noise insulation :** Possibility of supplying this accessory on demand.

Controls

Standard - SLM3

Wall-mounted electronic thermostat consisting of a terminal (located in the room) and a power board (located in the appliance). It may be used as an infrared receiver for the remote control AC5300 and AC6300.

Features :

- Temperature set-point : from 16 °C to 30 °C;
- (COOL/HEAT/AUTO/FAN);
- ON/OFF timer programming of the unit;
- Room sensor in the return;
- SLEEP function.

Optional - ARIA

Wall-mounted electronic thermostat consisting of a terminal (located in the room) and a power board (located in the unit). Connection to the unit through 2 wires.

Features :

- COOL/HEAT/AUTO/FAN modes;
- Room sensor in the return;
- Temperature set-point between 16 °C and 30 °C;
- Set : COMFORT/ABSENCE/ NIGHT.

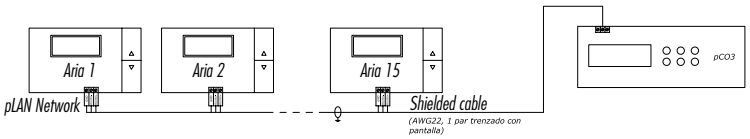
Other options :

- pLAN Network applications (up to 16 units controlled by a PCO_3). See the connections example in the next pages.
- Remote temperature probe (connected to the terminal)
- Thermostatic Free Cooling
- Timer Setting terminal (not compatible when pLAN network)
- Dirty filter detector.

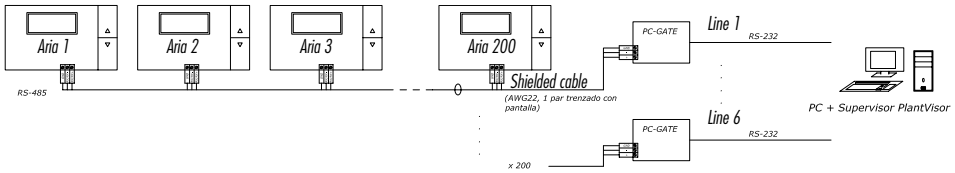
Examples of Connexion

In case of ARIA control, the units can be connected as follow. All connections available only with ARIA pLAN version.

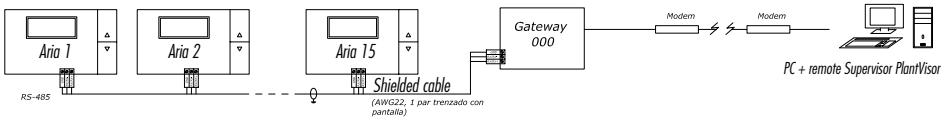
pLAN connection



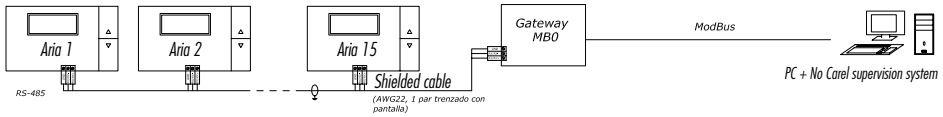
Connection with PlantVisor (Carel)



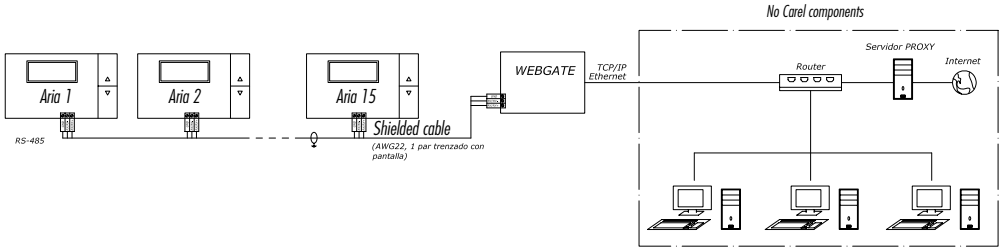
Connection with remote PlantVisor (Carel)



Connection with no Carel supervisor



TCP/IP connection



Supply and Return Positions

There is the possibility of several configurations of the inlet and outlet positions of the air intakes. The panel are easy interchangeable, although the final configuration must be selected when order.

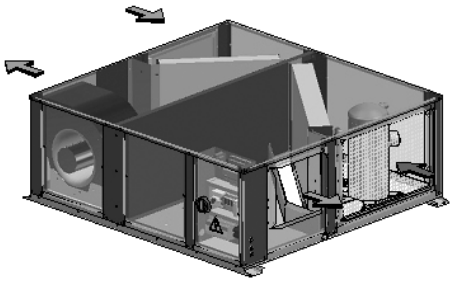


Fig. A

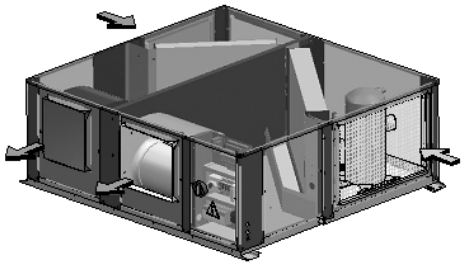


Fig.B

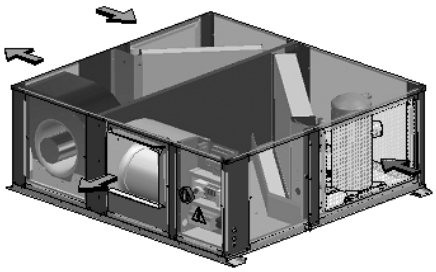


Fig.C

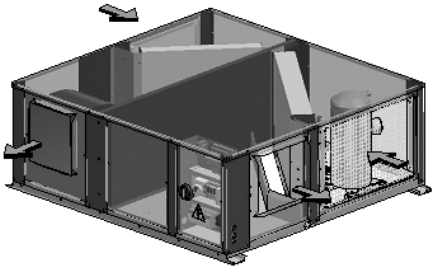


Fig.D

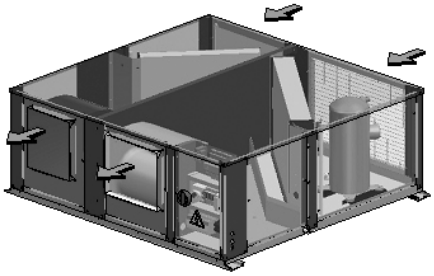


Fig.E

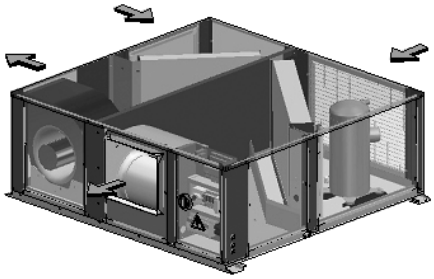


Fig.F

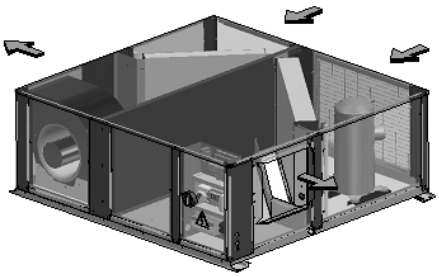


Fig.G

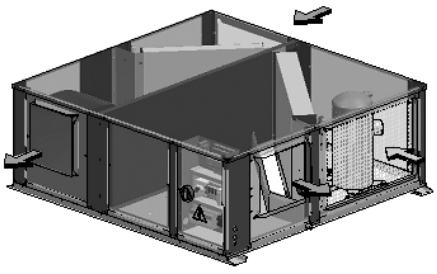


Fig.H

Technical Data

Models		064	084	104	124	164	204	224	254	304
COOLING MODE										
Cooling Capacity **(1)**	kW	6.0	7.5	9.7	12.1	15.7	19.5	21.9	24.6	29.2
Power Input **(1)**	kW	2.4	3.0	3.6	4.3	6.2	7.5	8.2	9.1	11.0
EER compressor		3.0	3.0	3.4	3.4	3.4	3.4	3.4	3.6	3.5
EER unit		2.5	2.5	2.7	2.8	2.5	2.6	2.7	2.7	2.7
HEAT PUMP MODE										
Heating Capacity **(2)**	kW	6.4	7.9	10.0	12.6	16.1	19.8	22.1	24.9	29.4
Power Input **(2)**	kW	2.2	2.8	3.3	3.9	5.7	6.8	7.5	8.4	10.0
COP compressor		3.5	3.5	3.8	4.0	3.9	4.0	3.9	4.1	4.0
COP unit		2.9	2.8	3.0	3.2	2.8	2.9	2.9	3.0	2.9
COMPRESSOR										
Type		Hermetic Scroll								
Number		1	1	1	1	1	1	1	1	1
Number of circuits		1	1	1	1	1	1	1	1	1
Number of stages		1	1	1	1	1	1	1	1	1
Type of oil		Danfoss P.O.E. 160 SZ. Copeland 3MAF 32 cSt. ICI Emkarate RL32 CF. Mobil EAL Arctic 22cc								
Crankcase heater	W	70	70	70	70	70	70	70	70	70
Quantity/Load	litres	1.1	1.3	1.3	1.6	1.7	1.8	3.0	3.3	3.3
Cooling Power Input **(1)**	kW	2.0	2.5	2.9	3.6	4.6	5.7	6.4	6.9	8.4
Cooling Electrical Requirement **(1)**	A	9.3	11.9	5.3	6.5	8.1	10.5	11.7	12.3	15.3
Heating Power Input **(2)**	kW	1.8	2.3	2.6	3.2	4.1	5.0	5.7	6.1	7.4
Heating Electrical Requirement **(2)**	A	8.6	10.9	4.9	6.0	7.4	9.6	10.8	11.4	14.3
INDOOR UNIT										
Number of fans		1 x Simple	1 x Simple	1 x Simple	1 x Simple	1 x Simple	1 x Simple	1 x Simple	1 x Simple	1 x Simple
Type		Direct Driven Centrifugal Fan				Pulley & Belt Adjustable Motor Centrifugal Fan				
Dimensions		9/9	9/9	10/8	10/8	10/10	12/9	12/9	12/12	12/12
Voltage-Fases-Frequency		230V-I-50Hz				400V-III-50Hz				
Absorbed Power Motor	kW	0.15	0.25	0.245	0.245	0.55	0.75	0.75	0.75	1.10
Maximum Electrical Requirement	A	2.10	2.60	2.60	2.60	1.53	1.93	1.93	1.93	2.60
Nominal airflow	m^3/h	1200	1700	2000	2300	3100	4000	4000	4250	5200
Available Static Pressure	Pa	92	82	114	62	76	114	114	95	75
OUTDOOR UNIT										
Number of fans		1 x Simple	1 x Simple	1 x Simple	1 x Simple	1 x Simple	1 x Simple	1 x Simple	1 x Simple	1 x Simple
Type		Direct Driven Centrifugal Fan				Pulley & Belt Adjustable Motor Centrifugal Fan				
Dimensions		9/9	9/9	10/10	10/10	12/9	12/12	12/12	15/15	15/15
Voltage-Fases-Frequency		230V-I-50Hz				400V-III-50Hz				
Absorbed Power Motor	kW	0.25	0.30	0.50	0.50	1.10	1.10	1.10	1.50	1.50
Maximum Electrical Requirement	A	2.60	3.50	5.80	5.80	1.93	1.93	1.93	3.40	3.40
Nominal airflow	m^3/h	2250	2500	3200	3500	4500	5400	5400	8200	8500
Available Static Pressure	Pa	72	99	99	55	74	101	101	109	71
DIMENSIONS										
Length	mm	1270	1270	1360	1360	1450	1660	1660	1925	1925
Depth	mm	1200	1200	1300	1300	1400	1600	1600	1850	1850
High	mm	465	465	515	515	565	565	565	620	620
Packaged Unit Weight	kg	155	165	190	210	235	295	300	405	420
Condensing Water Drainpipe		Male thread 1/2" G								
SAFETY DEVICES										
Heat-Pump & Cooling mode		High Pressure Pressostat. Manual Reset. 42 bar +/-1								
Heat-Pump & Cooling mode		Temperature Probe Protection for Low Pressure Conditions								
Heat-Pump & Cooling mode		Temperature Probe for Discharge Compressor Temperature								
GAS REFRIGERANT										
Type		R410a								
Load	kg	1.4	1.6	2.0	2.4	3.1	3.8	4.2	4.8	5.6
Power Supply		230V-I-50Hz(+/-5%)		400V-III+N-50Hz(+/-5%)						
Unit Maximum Electrical Input	A	21	22	16	17	15	19	20	25	27
Packaged Sound Pressure Level **(3)**	db(A)	58.0	64.0	64.5	68.0	70.0	70.5	71.0	71.5	71.5
Evaporating Unit Sound Pressure Level **(3)**	db(A)	51.0	51.5	53.0	53.5	55.0	57.5	58.5	59.0	60.5
Condensing Unit Sound Pressure Level **(3)**	db(A)	56.0	60.0	62.0	65.5	66.0	66.5	67.0	68.0	68.5

(1) Indoor temperature : 27 °C and 50% RH (Twb=19 °C) and outdoor temperature : 35 °C.
(2) Indoor temperature : 20 °C and outdoor temperature : 7 °C (Twb=6 °C).
(3) Pressure sound level measured at 5 m distance from unit surface in free field conditions at 1.5 m from ground level and with air ducts.

Optional Item Data

Electrical heaters

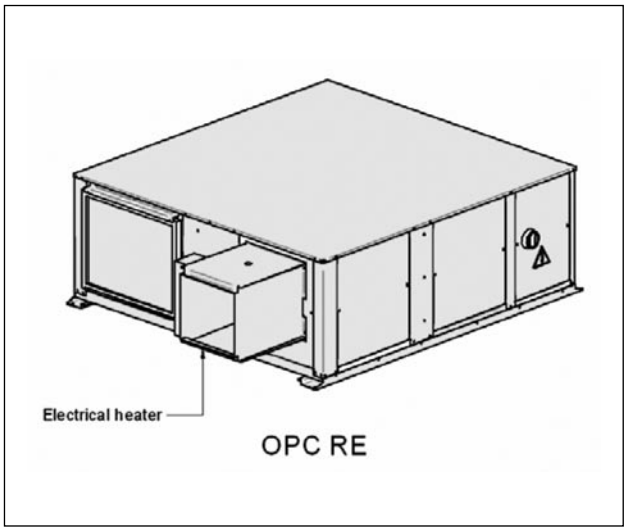
It consists of a in nickel-chrome wire heating element. This "kit" has been designed as a reserve heat source; its operation is regulated by the unit control system and it must be fixed on the internal unit, directly onto the supply air outlet.

The heating elements have an independent switch and two thermal cut-outs: the first one with automatic reset disconnects the heating elements when temperature reaches 77 °C; the other, with manual reset, disconnects it when temperature reaches 105 °C.

In case of an internal cut-out failure of the fan, the unit control system stops the heating element.

The "kit" includes :

- Fuses, power contactors and specific on/off switch for the heating element.
- The unit control system stops the heating element in the event of an internal fan thermal cut-out failure.



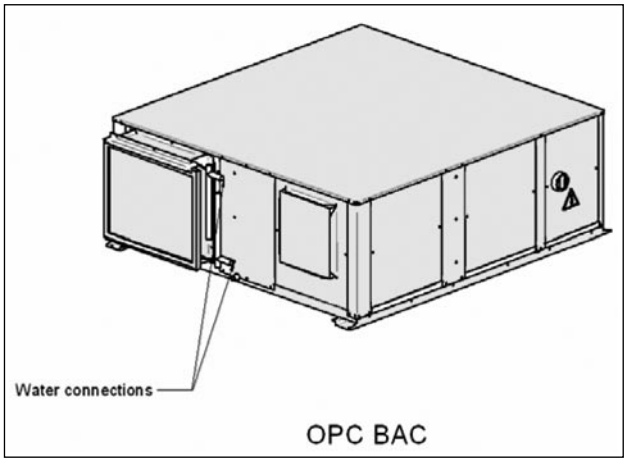
Models	kW	A	064	084	104	124	164	204	224	254	304
Electrical Heater 230V-I-50Hz	3	13.0	**x**	**x**							
	6	26.1	**x**	**x**							
Electrical Heater 400V-III-50Hz	3	4.3			**x**	**x**					
	6	8.7			**x**	**x**					
	9	13.0			**x**	**x**	**x**				
	12	17.3			**x**	**x**	**x**	**x**	**x**	**x**	**x**
	15	21.7					**x**	**x**	**x**	**x**	**x**
	18	26.0						**x**	**x**	**x**	**x**

Hot water coil

Copper pipes and aluminium fins coils with galvanised sheet metal headers and copper manifolds with brass connections.

The coils are mounted in Cooling Only units before evaporating coils.

ON-OFF water valve control.



Models		064	084	104	124	164	204	224	254	304
Capacity	**kW**	6.4	7.7	10.8	11.6	18.7	25.2	25.2	29.2	32.7
Nominal airflow	**m²/h**	1 200	1 700	2 000	2 300	3 100	4 000	4 000	4250	5 200
Air pressure loss	**kPa**	57	57	44	44	71	67	67	65	65
Water flow rate	**l/h**	1615	1615	2185	2185	2945	3800	3800	4940	4940
Water loss of head	**kPa**	6.17	8.25	21	23.9	13.7	27.2	27.2	26.5	29.7
Water coil connections	**Ø**	1/2"G	1/2"G	1/2"G	1/2"G	1/2"G	1/2"G	1/2"G	3/4"G	3/4"G

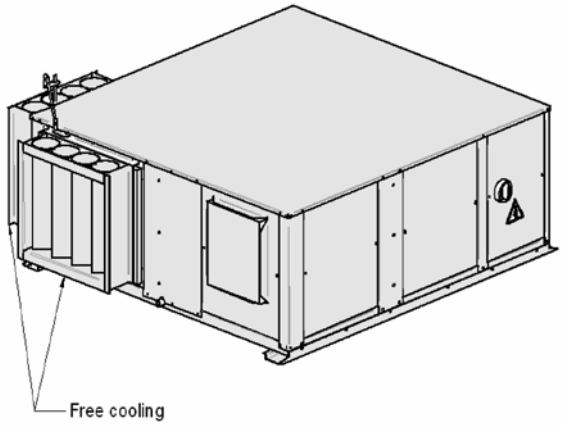
Air conditions : 20 °C and 50% RH.
Water conditions : Inlet 80 °C, outlet 65 °C.

Optional Item Data (cont'd)

Thermostatic free cooling

The thermostatic free cooling consists of 2 external dampers module managed by a motor.

2 dampers free cooling.



OPC FC

Operating Limits

	Air temperature (°C)			
	Cooling mode		Heat pump mode	
Indoor temperature				
Minimum	19	14	10***	-
Maximum	35	21	27	-
Outdoor temperature				
Minimum	-10*	-	-10	-
Maximum	46**	-	24	16

* A proportional condensing control is necessary when outdoor temperature is below 18 °C.
** Up to 52 °C with powered fan.
*** The appliance can operate for a short time when temperatures are below 10 °C in order to raise the air temperature in the environment being served up to 10 °C.

Correcting Factors

CORRECTING FACTOR FOR COOLING CAPACITY ACCORDING WITH % OF INDOOR AIR FLOW					
% air flow	**80**	**90**	**100**	**110**	**120**
TOTAL capacity	0.96	0.985	1	1.015	1.03
SENSIBLE capacity	0.885	0.925	1	1.065	1.11

CORRECTING FACTOR FOR HEATING CAPACITY ACCORDING WITH % OF INDOOR AIR FLOW					
% air flow	**80**	**90**	**100**	**110**	**120**
TOTAL capacity	0.96	0.985	1	1.025	1.045

Cooling Capacities

Sizes	Indoor temp. (°C)		Outdoor temperature (°C)													
	Wet bulb	Dry bulb	25			30			35			40			46	
			Pt	Ps	Pabs	Pt	Ps	Pabs	Pt	Ps	Pabs	Pt	Ps	Pabs	Pt	Ps	Pabs
064	16	19	5.9	3.5	1.9	5.7	3.5	2.1	5.4	3.3	2.3	5.1	3.2	2.5	4.9	3.2	2.6
		21	5.9	4.0	1.9	5.7	3.9	2.1	5.5	3.8	2.3	5.2	3.7	2.5	4.9	3.6	2.6
		23	6.0	4.6	1.9	5.8	4.5	2.1	5.5	4.3	2.3	5.2	4.2	2.5	4.9	4.1	2.7
		25	6.0	5.5	1.9	5.8	5.4	2.1	5.6	5.2	2.3	5.3	5.0	2.5	5.0	4.8	2.7
	19	23	6.4	3.5	1.9	6.2	3.3	2.1	5.9	3.2	2.4	5.5	3.1	2.6	5.3	2.9	2.7
		25	6.5	4.7	2.0	6.3	4.6	2.2	6.0	4.5	2.4	5.6	4.3	2.6	5.4	4.2	2.7
		27	6.5	5.0	2.0	6.3	4.9	2.2	**6.0**	**4.8**	**2.4**	5.7	4.7	2.6	5.4	4.5	2.7
		29	6.6	5.7	2.0	6.3	5.6	2.2	6.0	5.5	2.4	5.7	5.3	2.6	5.5	5.0	2.7
	21	25	6.8	3.5	2.0	6.5	3.3	2.2	6.2	3.2	2.4	5.9	3.1	2.6	5.5	3.0	2.7
		27	6.8	4.4	2.0	6.5	4.3	2.2	6.2	4.1	2.4	5.9	4.1	2.6	5.6	3.9	2.7
		29	6.8	5.0	2.0	6.5	4.9	2.2	6.2	4.8	2.4	5.9	4.7	2.6	5.6	4.5	2.7
		31	6.8	6.1	2.0	6.7	5.7	2.2	6.4	5.5	2.4	6.0	5.5	2.6	5.8	5.5	2.7
	23	27	7.0	3.5	2.0	6.6	3.4	2.2	6.5	3.2	2.4	6.2	3.1	2.6	6.0	3.1	2.7
		29	7.0	4.4	2.0	6.7	4.3	2.2	6.5	4.2	2.4	6.2	4.1	2.6	6.1	4.0	2.7
		31	7.3	5.0	2.0	7.0	4.9	2.2	6.7	4.8	2.5	6.4	4.7	2.6	6.2	4.5	2.8
		33	7.4	6.1	2.0	7.1	5.7	2.2	6.8	5.6	2.5	6.4	5.5	2.6	6.3	5.5	2.8
084	16	19	7.4	4.3	2.4	7.1	4.3	2.6	6.8	4.1	2.9	6.4	4.0	3.1	6.1	4.0	3.3
		21	7.4	5.1	2.4	7.2	4.9	2.7	6.8	4.8	2.9	6.5	4.6	3.2	6.1	4.5	3.3
		23	7.5	5.7	2.4	7.2	5.6	2.7	6.9	5.4	2.9	6.5	5.3	3.2	6.2	5.2	3.4
		25	7.5	6.9	2.4	7.3	6.7	2.7	7.0	6.4	3.0	6.6	6.2	3.2	6.3	6.0	3.4
	19	23	8.0	4.3	2.5	7.7	4.1	2.7	7.3	4.0	3.0	6.9	3.8	3.2	6.6	3.6	3.4
		25	8.1	5.8	2.5	7.8	5.7	2.7	7.5	5.6	3.0	7.1	5.4	3.2	6.7	5.3	3.4
		27	8.2	6.3	2.5	7.8	6.1	2.7	**7.5**	**6.0**	**3.0**	7.1	5.8	3.3	6.7	5.7	3.4
		29	8.2	7.1	2.5	7.9	7.0	2.7	7.5	6.8	3.0	7.1	6.6	3.3	6.8	6.3	3.4
	21	25	8.5	4.4	2.5	8.1	4.1	2.7	7.8	4.0	3.0	7.3	3.9	3.3	6.9	3.8	3.4
		27	8.5	5.4	2.5	8.1	5.4	2.8	7.8	5.2	3.0	7.4	5.1	3.3	6.9	4.9	3.4
		29	8.5	6.2	2.5	8.2	6.1	2.8	7.8	6.0	3.0	7.4	5.9	3.3	7.0	5.6	3.5
		31	8.5	7.6	2.5	8.3	7.1	2.8	8.0	6.9	3.1	7.5	6.8	3.3	7.2	6.8	3.5
	23	27	8.7	4.4	2.5	8.2	4.2	2.8	8.1	4.0	3.1	7.8	3.9	3.3	7.5	3.8	3.5
		29	8.8	5.5	2.5	8.3	5.4	2.8	8.2	5.2	3.1	7.8	5.1	3.3	7.6	5.0	3.5
		31	9.1	6.3	2.6	8.8	6.2	2.8	8.3	6.0	3.1	7.9	5.9	3.3	7.8	5.6	3.5
		33	9.2	7.7	2.6	8.9	7.1	2.8	8.5	7.0	3.1	8.0	6.8	3.3	7.9	6.9	3.5
104	16	19	9.6	5.6	2.9	9.2	5.6	3.2	8.8	5.4	3.5	8.4	5.2	3.8	7.9	5.2	4.0
		21	9.7	6.6	2.9	9.3	6.4	3.2	8.9	6.2	3.5	8.4	6.0	3.8	8.0	5.8	4.0
		23	9.7	7.4	2.9	9.3	7.3	3.2	8.9	7.0	3.5	8.4	6.8	3.8	8.0	6.7	4.1
		25	9.8	9.0	2.9	9.5	8.8	3.2	9.1	8.4	3.6	8.6	8.1	3.9	8.2	7.7	4.1
	19	23	10.5	5.6	3.0	10.0	5.3	3.3	9.6	5.2	3.6	9.0	5.0	3.9	8.6	4.7	4.1
		25	10.6	7.6	3.0	10.2	7.4	3.3	9.7	7.2	3.6	9.2	7.0	3.9	8.7	6.8	4.1
		27	10.6	8.2	3.0	10.2	8.0	3.3	**9.7**	**7.8**	**3.6**	9.2	7.6	3.9	8.8	7.4	4.1
		29	10.7	9.2	3.0	10.3	9.1	3.3	9.8	8.9	3.6	9.3	8.6	3.9	8.9	8.1	4.1
	21	25	11.0	5.7	3.0	10.5	5.4	3.3	10.1	5.2	3.6	9.5	5.1	3.9	9.0	4.9	4.1
		27	11.0	7.1	3.0	10.6	7.0	3.3	10.1	6.7	3.7	9.6	6.6	3.9	9.0	6.4	4.1
		29	11.1	8.1	3.0	10.6	8.0	3.3	10.1	7.7	3.7	9.6	7.6	4.0	9.2	7.3	4.2
		31	11.1	9.9	3.0	10.8	9.2	3.4	10.4	9.0	3.7	9.8	8.9	4.0	9.3	8.9	4.2
	23	27	11.3	5.8	3.1	10.7	5.5	3.4	10.5	5.2	3.7	10.1	5.1	4.0	9.7	5.0	4.2
		29	11.4	7.2	3.1	10.8	7.0	3.4	10.6	6.8	3.7	10.1	6.6	4.0	9.9	6.5	4.2
		31	11.8	8.2	3.1	11.4	8.0	3.4	10.8	7.8	3.7	10.3	7.6	4.0	10.1	7.3	4.2
		33	12.0	10.0	3.1	11.6	9.3	3.4	11.0	9.0	3.7	10.4	8.9	4.0	10.2	9.0	4.2

Pt : Total capacity.
Ps : Sensible capacity.
Pabs : Absorbed power.

Cooling Capacities (cont'd)

Sizes	Indoor temp. (°C)		Outdoor temperature (°C)														
	Wet bulb	Dry bulb	25			30			35			40			46		
			Pt	Ps	Pabs	Pt	Ps	Pabs	Pt	Ps	Pabs	Pt	Ps	Pabs	Pt	Ps	Pabs
124	16	19	11.9	6.8	3.4	11.5	6.8	3.8	11.0	6.6	4.2	10.4	6.3	4.5	9.9	6.3	4.8
		21	12.0	8.0	3.4	11.5	7.8	3.8	11.0	7.6	4.2	10.4	7.3	4.5	9.9	7.1	4.8
		23	12.0	9.0	3.4	11.6	8.9	3.8	11.1	8.5	4.2	10.5	8.3	4.5	9.9	8.2	4.8
		25	12.2	10.9	3.4	11.8	10.7	3.8	11.2	10.2	4.2	10.7	9.8	4.6	10.2	9.4	4.8
	19	23	13.0	6.9	3.5	12.4	6.5	3.9	11.9	6.3	4.3	11.2	6.1	4.6	10.6	5.8	4.8
		25	13.1	9.2	3.5	12.6	9.0	3.9	12.0	8.8	4.3	11.4	8.6	4.6	10.8	8.3	4.9
		27	13.2	9.9	3.5	12.7	9.7	3.9	**12.1**	**9.5**	**4.3**	11.4	9.2	4.6	10.9	9.0	4.9
		29	13.3	11.3	3.5	12.8	11.0	3.9	12.2	10.8	4.3	11.5	10.5	4.6	11.0	9.9	4.9
	21	25	13.7	7.0	3.6	13.0	6.6	3.9	12.5	6.3	4.3	11.8	6.2	4.6	11.2	6.0	4.9
		27	13.7	8.6	3.6	13.2	8.5	3.9	12.6	8.2	4.3	11.9	8.1	4.6	11.2	7.8	4.9
		29	13.7	9.8	3.6	13.2	9.7	3.9	12.6	9.4	4.3	11.9	9.3	4.7	11.4	8.9	4.9
		31	13.8	12.0	3.6	13.5	11.2	4.0	12.9	10.9	4.4	12.2	10.8	4.7	11.6	10.8	4.9
	23	27	14.0	7.0	3.6	13.3	6.6	4.0	13.1	6.4	4.4	12.6	6.2	4.7	12.1	6.1	4.9
		29	14.1	8.7	3.6	13.4	8.5	4.0	13.2	8.3	4.4	12.6	8.1	4.7	12.3	7.9	4.9
		31	14.6	10.0	3.7	14.1	9.8	4.0	13.4	9.5	4.4	12.8	9.3	4.8	12.6	8.9	5.0
		33	14.9	12.1	3.7	14.4	11.3	4.0	13.7	11.0	4.4	12.9	10.8	4.8	12.7	10.9	5.0
164	16	19	15.5	9.1	5.0	14.9	9.1	5.5	14.3	8.7	6.1	13.5	8.3	6.5	12.8	8.3	6.9
		21	15.6	10.6	5.0	15.0	10.3	5.5	14.3	10.0	6.1	13.6	9.7	6.5	12.9	9.4	6.9
		23	15.7	12.0	5.0	15.1	11.8	5.5	14.4	11.2	6.1	13.6	11.1	6.5	12.9	10.9	7.0
		25	15.8	14.5	5.0	15.3	14.1	5.5	14.6	13.5	6.1	13.9	13.1	6.6	13.2	12.5	7.0
	19	23	16.9	9.1	5.1	16.2	8.6	5.6	15.4	8.4	6.2	14.5	8.1	6.7	13.8	7.6	7.0
		25	17.1	12.3	5.1	16.4	12.0	5.6	15.7	11.7	6.2	14.8	11.4	6.7	14.1	11.1	7.0
		27	17.1	13.2	5.1	16.5	12.9	5.6	**15.7**	**12.6**	**6.2**	14.9	12.2	6.7	14.1	11.9	7.0
		29	17.3	14.9	5.1	16.6	14.6	5.6	15.9	14.3	6.2	15.0	13.9	6.7	14.3	13.2	7.0
	21	25	17.8	9.2	5.1	17.0	8.7	5.7	16.3	8.3	6.2	15.4	8.2	6.7	14.5	8.0	7.1
		27	17.8	11.4	5.2	17.1	11.2	5.7	16.4	10.9	6.3	15.5	10.7	6.7	14.6	10.3	7.1
		29	17.9	13.1	5.2	17.1	12.9	5.7	16.4	12.5	6.3	15.5	12.3	6.8	14.8	11.8	7.2
		31	17.9	16.0	5.2	17.5	14.9	5.8	16.8	14.5	6.3	15.8	14.3	6.8	15.1	14.3	7.2
	23	27	18.2	9.3	5.2	17.3	8.8	5.8	17.0	8.4	6.3	16.4	8.2	6.8	15.7	8.1	7.2
		29	18.4	11.6	5.2	17.5	11.2	5.8	17.1	10.9	6.3	16.4	10.7	6.8	16.0	10.4	7.2
		31	19.0	13.2	5.3	18.4	13.0	5.8	17.5	12.6	6.4	16.7	12.3	6.9	16.4	11.8	7.2
		33	19.3	16.1	5.3	18.7	15.0	5.8	17.8	14.6	6.4	16.8	14.3	6.9	16.5	14.5	7.2
204	16	19	19.2	11.0	6.0	18.5	11.0	6.6	17.7	10.6	7.3	16.7	10.1	7.8	15.9	10.1	8.3
		21	19.3	12.9	6.0	18.6	12.5	6.6	17.7	12.2	7.3	16.8	11.8	7.9	15.9	11.5	8.3
		23	19.4	14.6	6.0	18.7	14.3	6.6	17.8	13.7	7.3	16.8	13.5	7.9	16.0	13.2	8.4
		25	19.6	17.6	6.0	19.0	17.2	6.7	18.1	16.5	7.4	17.2	15.9	8.0	16.4	15.2	8.4
	19	23	20.9	11.1	6.1	20.1	10.5	6.7	19.1	10.2	7.4	18.0	9.8	8.0	17.1	9.3	8.4
		25	21.1	14.9	6.1	20.3	14.6	6.8	19.4	14.2	7.5	18.4	13.8	8.0	17.4	13.5	8.5
		27	21.2	16.0	6.1	20.4	15.7	6.8	**19.5**	**15.3**	**7.5**	18.4	14.9	8.1	17.5	14.5	8.5
		29	21.4	18.2	6.2	20.6	17.8	6.8	19.6	17.4	7.5	18.6	16.9	8.1	17.7	16.0	8.5
	21	25	22.0	11.2	6.2	21.0	10.6	6.8	20.2	10.1	7.5	19.1	9.9	8.1	18.0	9.7	8.6
		27	22.1	13.9	6.2	21.2	13.7	6.9	20.3	13.2	7.6	19.2	13.0	8.1	18.1	12.6	8.6
		29	22.1	15.9	6.2	21.2	15.7	6.9	20.3	15.2	7.6	19.2	15.0	8.2	18.3	14.3	8.6
		31	22.2	19.4	6.3	21.7	18.1	6.9	20.8	17.6	7.6	19.6	17.4	8.2	18.7	17.4	8.6
	23	27	22.6	11.3	6.3	21.4	10.7	7.0	21.0	10.3	7.7	20.3	9.9	8.3	19.5	9.8	8.6
		29	22.8	14.1	6.3	21.6	13.7	7.0	21.2	13.3	7.7	20.3	13.0	8.3	19.9	12.7	8.6
		31	23.6	16.1	6.4	22.8	15.8	7.1	21.6	15.3	7.7	20.6	15.0	8.3	20.3	14.4	8.7
		33	24.0	19.6	6.4	23.2	18.2	7.1	22.0	17.8	7.7	20.8	17.4	8.3	20.4	17.6	8.7

Pt : Total capacity.
Ps : Sensible capacity.
Pabs : Absorbed power.

Cooling Capacities (cont'd)

Sizes	Indoor temp. (°C)		Outdoor temperature (°C)													
	Wet bulb	Dry bulb	25			30			35			40			46	
			Pt	Ps	Pabs	Pt	Ps	Pabs	Pt	Ps	Pabs	Pt	Ps	Pabs	Pt	Ps	Pabs
224	16	19	21.6	12.6	6.5	20.8	12.6	7.2	19.9	12.1	8.0	18.8	11.6	8.5	17.9	11.6	9.1
		21	21.8	14.8	6.6	20.9	14.4	7.2	20.0	14.0	8.0	18.9	13.6	8.6	18.0	13.2	9.1
		23	21.8	16.7	6.6	21.1	16.4	7.3	20.1	15.7	8.0	19.0	15.4	8.6	18.0	15.2	9.2
		25	22.1	20.2	6.6	21.4	19.7	7.3	20.4	18.9	8.1	19.4	18.2	8.7	18.5	17.4	9.2
	19	23	23.5	12.7	6.7	22.6	12.0	7.4	21.5	11.7	8.1	20.3	11.3	8.8	19.3	10.6	9.2
		25	23.8	17.1	6.7	22.9	16.7	7.4	21.9	16.3	8.2	20.7	15.8	8.8	19.6	15.4	9.3
		27	23.9	18.4	6.7	23.0	18.0	7.4	**21.9**	**17.5**	**8.2**	20.8	17.1	8.9	19.7	16.6	9.3
		29	24.1	20.8	6.8	23.1	20.4	7.5	22.1	20.0	8.2	20.9	19.3	8.9	20.0	18.4	9.3
	21	25	24.8	12.9	6.8	23.7	12.1	7.5	22.7	11.6	8.2	21.5	11.4	8.9	20.3	11.1	9.4
		27	24.9	15.9	6.8	23.9	15.7	7.5	22.8	15.2	8.3	21.6	14.9	8.9	20.3	14.4	9.4
		29	24.9	18.2	6.8	23.9	18.0	7.5	22.8	17.4	8.3	21.6	17.2	9.0	20.6	16.4	9.4
		31	25.0	22.3	6.9	24.4	20.7	7.6	23.4	20.2	8.4	22.1	20.0	9.0	21.1	20.0	9.4
	23	27	25.4	13.0	6.9	24.1	12.3	7.6	23.7	11.8	8.4	22.8	11.4	9.0	21.9	11.2	9.4
		29	25.7	16.1	6.9	24.3	15.7	7.6	23.9	15.3	8.4	22.8	14.9	9.0	22.4	14.6	9.4
		31	26.5	18.4	7.0	25.7	18.1	7.7	24.3	17.5	8.5	23.3	17.2	9.1	22.8	16.5	9.5
		33	27.0	22.5	7.0	26.1	20.9	7.7	24.8	20.4	8.5	23.5	20.0	9.1	23.0	20.2	9.5
254	16	19	24.3	14.2	7.3	23.3	14.2	8.0	22.4	13.6	8.9	21.1	13.0	9.5	20.1	13.0	10.1
		21	24.4	16.6	7.3	23.5	16.1	8.0	22.4	15.7	8.9	21.2	15.2	9.6	20.1	14.8	10.1
		23	24.5	18.7	7.3	23.6	18.4	8.1	22.5	17.6	8.9	21.3	17.3	9.6	20.2	17.0	10.2
		25	24.8	22.7	7.3	24.0	22.1	8.1	22.9	21.2	9.0	21.8	20.4	9.7	20.7	19.6	10.2
	19	23	26.4	14.2	7.5	25.3	13.5	8.2	24.1	13.1	9.1	22.7	12.6	9.8	21.6	11.9	10.2
		25	26.7	19.2	7.5	25.7	18.8	8.3	24.5	18.3	9.1	23.2	17.8	9.8	22.0	17.3	10.3
		27	26.8	20.6	7.5	25.8	20.2	8.3	**24.6**	**19.7**	**9.1**	23.3	19.1	9.9	22.1	18.7	10.3
		29	27.0	23.3	7.5	26.0	22.9	8.3	24.8	22.4	9.1	23.5	21.7	9.9	22.4	20.6	10.3
	21	25	27.8	14.5	7.6	26.5	13.6	8.3	25.5	13.0	9.2	24.1	12.8	9.9	22.7	12.5	10.4
		27	27.9	17.9	7.6	26.8	17.6	8.4	25.6	17.0	9.2	24.2	16.7	9.9	22.8	16.2	10.4
		29	28.0	20.4	7.6	26.8	20.1	8.4	25.6	19.6	9.2	24.2	19.3	10.0	23.1	18.4	10.5
		31	28.0	25.0	7.6	27.4	23.3	8.5	26.2	22.7	9.3	24.8	22.4	10.0	23.6	22.4	10.5
	23	27	28.5	14.6	7.7	27.1	13.8	8.5	26.6	13.2	9.3	25.6	12.8	10.1	24.6	12.6	10.5
		29	28.8	18.1	7.7	27.3	17.6	8.5	26.8	17.1	9.3	25.6	16.7	10.1	25.1	16.3	10.5
		31	29.8	20.7	7.8	28.8	20.3	8.6	27.3	19.7	9.4	26.1	19.3	10.1	25.6	18.5	10.6
		33	30.3	25.2	7.8	29.3	23.4	8.6	27.8	22.8	9.4	26.3	22.4	10.1	25.8	22.6	10.6
304	16	19	28.8	16.4	8.8	27.7	16.4	9.7	26.5	15.8	10.7	25.1	15.1	11.4	23.8	15.1	12.2
		21	29.0	19.2	8.8	27.9	18.7	9.7	26.6	18.2	10.7	25.2	17.6	11.5	23.9	17.1	12.2
		23	29.1	21.7	8.8	28.0	21.3	9.7	26.7	20.4	10.7	25.3	20.0	11.5	24.0	19.7	12.3
		25	29.4	26.3	8.8	28.4	25.6	9.7	27.2	24.5	10.8	25.8	23.6	11.6	24.6	22.7	12.3
	19	23	31.4	16.5	9.0	30.1	15.6	9.9	28.7	15.1	10.9	27.0	14.6	11.8	25.7	13.8	12.3
		25	31.7	22.2	9.0	30.5	21.7	9.9	29.1	21.2	11.0	27.5	20.6	11.8	26.2	20.0	12.4
		27	31.8	23.9	9.0	30.6	23.3	9.9	**29.2**	**22.8**	**11.0**	27.7	22.2	11.9	26.3	21.6	12.4
		29	32.1	27.0	9.0	30.8	26.5	10.0	29.4	26.0	11.0	27.9	25.1	11.9	26.6	23.8	12.4
	21	25	33.0	16.7	9.1	31.5	15.8	10.0	30.3	15.1	11.0	28.6	14.8	11.9	27.0	14.4	12.5
		27	33.1	20.7	9.1	31.8	20.4	10.1	30.4	19.7	11.1	28.7	19.4	11.9	27.1	18.7	12.5
		29	33.2	23.6	9.1	31.8	23.3	10.1	30.4	22.7	11.1	28.8	22.3	12.0	27.5	21.3	12.6
		31	33.3	28.9	9.2	32.5	26.9	10.2	31.1	26.3	11.2	29.4	25.9	12.0	28.0	25.9	12.6
	23	27	33.9	16.9	9.2	32.1	15.9	10.2	31.5	15.3	11.2	30.4	14.8	12.1	29.2	14.6	12.6
		29	34.2	21.0	9.2	32.4	20.4	10.2	31.8	19.8	11.2	30.4	19.4	12.1	29.8	18.9	12.6
		31	35.3	23.9	9.3	34.2	23.5	10.3	32.4	22.8	11.3	31.0	22.3	12.2	30.4	21.4	12.7
		33	35.9	29.2	9.3	34.8	27.1	10.3	33.0	26.4	11.3	31.3	25.9	12.2	30.7	26.2	12.7

Pt : Total capacity.
Ps : Sensible capacity.
Pabs : Absorbed power.

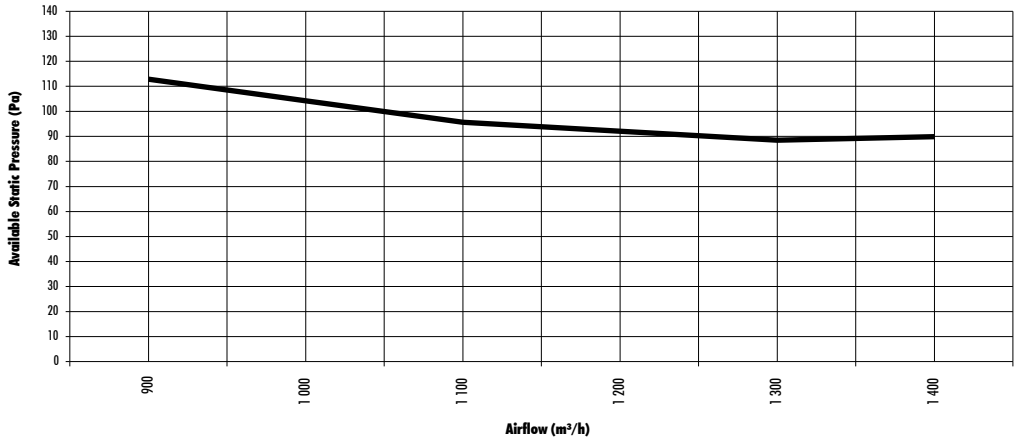
Heating Capacities

Size	Outdoor temp. (°C)	Indoor temperature (°C)											
		15		17		19		20		21		22	
		Pt	Pabs	Pt	Pabs	Pt	Pabs	Pt	Pabs	Pt	Pabs	Pt	Pabs
064	-5	4.5	1.6	4.4	1.7	4.3	1.7	4.3	1.7	4.3	1.6	4.3	1.6
	0	5.2	1.8	5.2	1.9	5.1	1.9	5.1	1.9	5.1	1.9	5.0	2.0
	5	6.2	2.0	6.1	2.1	6.0	2.1	6.0	2.1	5.9	2.2	5.9	2.2
	7	6.6	2.1	6.5	2.1	6.4	2.1	**6.4**	**2.2**	6.3	2.3	6.3	2.3
	10	7.2	2.2	7.1	2.3	7.1	2.3	7.0	2.4	6.9	2.4	6.9	2.4
	15	8.3	2.4	8.2	2.5	8.1	2.6	8.1	2.6	8.0	2.6	8.0	2.7
084	-5	28.4	3.6	28.1	3.7	27.7	3.8	27.6	3.9	27.4	3.5	27.2	3.5
	0	33.5	4.0	33.1	4.1	32.7	4.2	32.5	4.3	32.3	4.3	32.1	4.4
	5	39.3	4.4	38.9	4.6	38.4	4.6	38.2	4.8	37.8	4.8	37.8	4.9
	7	41.8	4.6	41.4	4.8	40.9	4.7	**7.9**	**2.8**	40.4	5.0	40.2	5.1
	10	45.8	4.9	45.3	5.0	45.5	5.2	44.5	5.3	44.3	5.3	44.0	5.4
	15	52.9	5.3	52.4	5.6	51.8	5.7	51.5	5.8	51.3	5.8	51.0	5.9
104	-5	6.9	2.4	6.9	2.5	6.8	2.6	6.7	2.6	6.7	2.4	6.7	2.4
	0	8.2	2.7	8.1	2.8	8.0	2.9	8.0	2.9	7.9	2.9	7.9	3.0
	5	9.6	3.0	9.5	3.1	9.4	3.1	9.3	3.2	9.3	3.2	9.2	3.3
	7	10.2	3.1	10.1	3.2	10.0	3.2	**10.0**	**3.3**	9.9	3.4	9.8	3.4
	10	11.2	3.3	11.1	3.4	11.1	3.5	10.9	3.5	10.8	3.6	10.8	3.6
	15	12.9	3.6	12.8	3.8	12.7	3.8	12.6	3.9	12.5	3.9	12.5	4.0
124	-5	8.8	2.8	8.7	2.9	8.6	3.0	8.6	3.1	8.5	2.8	8.4	2.8
	0	10.4	3.1	10.3	3.3	10.2	3.4	10.1	3.4	10.0	3.4	10.0	3.5
	5	12.2	3.5	12.1	3.6	11.9	3.7	11.9	3.8	11.7	3.8	11.7	3.9
	7	13.0	3.6	12.8	3.8	12.7	3.7	**12.6**	**3.9**	12.5	4.0	12.5	4.0
	10	14.2	3.8	14.1	4.0	14.1	4.1	13.8	4.2	13.7	4.2	13.7	4.3
	15	16.4	4.2	16.2	4.4	16.1	4.5	16.0	4.6	15.9	4.6	15.8	4.7
164	-5	11.2	4.1	11.1	4.3	10.9	4.4	10.9	4.5	10.8	4.1	10.7	4.1
	0	13.2	4.6	13.1	4.8	12.9	4.9	12.8	5.0	12.8	5.0	12.7	5.1
	5	15.5	5.1	15.3	5.3	15.2	5.3	15.1	5.5	14.9	5.6	14.9	5.6
	7	16.5	5.3	16.3	5.5	16.1	5.4	**16.1**	**5.7**	15.9	5.8	15.9	5.9
	10	18.1	5.6	17.9	5.8	18.0	6.0	17.6	6.1	17.5	6.2	17.4	6.2
	15	20.9	6.2	20.7	6.5	20.4	6.6	20.3	6.7	20.2	6.8	20.1	6.9
204	-5	13.8	4.9	13.7	5.1	13.5	5.3	13.4	5.3	13.3	4.8	13.2	4.9
	0	16.3	5.5	16.1	5.7	15.9	5.9	15.8	5.9	15.7	6.0	15.6	6.1
	5	19.1	6.1	18.9	6.3	18.7	6.4	18.6	6.6	18.4	6.6	18.3	6.7
	7	20.3	6.3	20.1	6.6	19.9	6.5	**19.8**	**6.8**	19.6	6.9	19.5	7.0
	10	22.2	6.7	22.0	7.0	22.1	7.2	21.7	7.2	21.5	7.3	21.4	7.4
	15	25.7	7.4	25.4	7.7	25.2	7.9	25.1	8.0	24.9	8.1	24.8	8.2
224	-5	15.4	5.4	15.3	5.6	15.1	5.8	15.0	5.9	14.9	5.3	14.8	5.4
	0	18.2	6.0	18.0	6.3	17.8	6.4	17.7	6.5	17.6	6.6	17.5	6.6
	5	21.4	6.7	21.1	7.0	20.9	7.0	20.8	7.2	20.6	7.3	20.5	7.4
	7	22.7	7.0	22.5	7.2	22.2	7.1	**22.1**	**7.5**	22.0	7.6	21.8	7.7
	10	24.9	7.4	24.6	7.7	24.7	7.9	24.2	8.0	24.1	8.1	23.9	8.2
	15	28.7	8.1	28.5	8.5	28.1	8.7	28.0	8.8	27.9	8.9	27.7	9.0
254	-5	17.4	6.0	17.2	6.3	17.0	6.5	16.9	6.5	16.7	5.9	16.6	6.0
	0	20.5	6.7	20.2	7.0	20.0	7.2	19.9	7.3	19.8	7.3	19.7	7.4
	5	24.0	7.4	23.8	7.8	23.5	7.8	23.4	8.0	23.1	8.1	23.1	8.2
	7	25.6	7.8	25.3	8.0	25.0	7.9	**24.9**	**8.4**	24.7	8.5	24.6	8.6
	10	28.0	8.2	27.7	8.5	27.8	8.8	27.2	8.9	27.1	9.0	26.9	9.1
	15	32.3	9.0	32.0	9.4	31.7	9.7	31.5	9.8	31.3	9.9	31.2	10.0
304	-5	20.6	7.3	20.3	7.5	20.1	7.7	20.0	7.8	19.8	7.1	19.7	7.2
	0	24.2	8.0	24.0	8.4	23.7	8.6	23.6	8.7	23.4	8.8	23.3	8.9
	5	28.4	8.9	28.1	9.3	27.8	9.3	27.6	9.6	27.4	9.8	27.3	9.9
	7	30.3	9.3	29.9	9.6	29.6	9.5	**29.4**	**10.0**	29.2	10.2	29.1	10.3
	10	33.1	9.8	32.8	10.2	32.9	10.5	32.2	10.7	32.0	10.8	31.9	10.9
	15	38.3	10.8	37.9	11.3	37.5	11.6	37.3	11.7	37.1	11.9	36.9	12.0

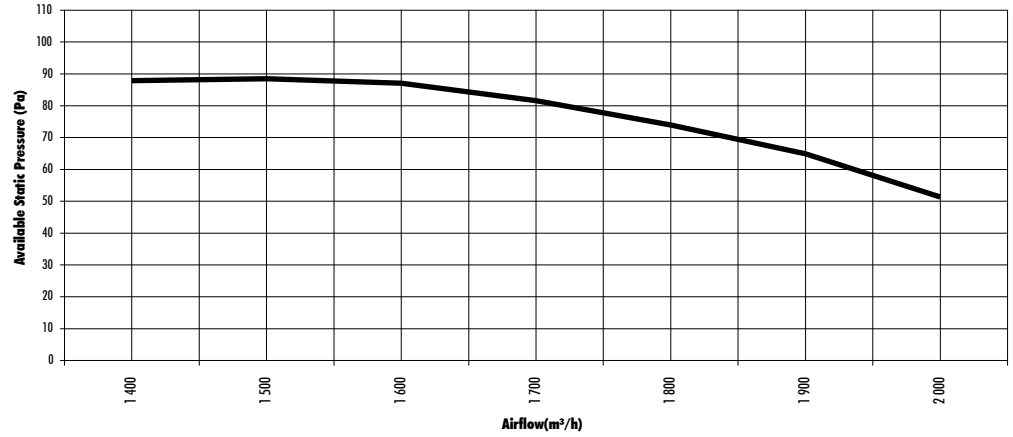
Pt : Total capacity.
Pabs : Absorbed power.

Internal Fan Curves

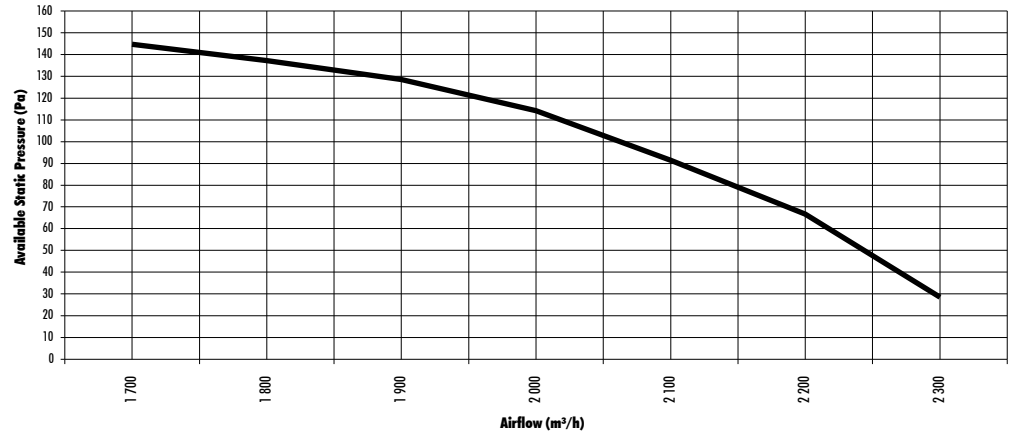
Size 064 - Max. airflow : 1400 m³/h - Min. airflow 950 m³/h - Standard airflow : 1200 m³/h



Size 084 - Max. airflow : 2000 m³/h - Min. airflow 1400 m³/h - Standard airflow : 1700 m³/h

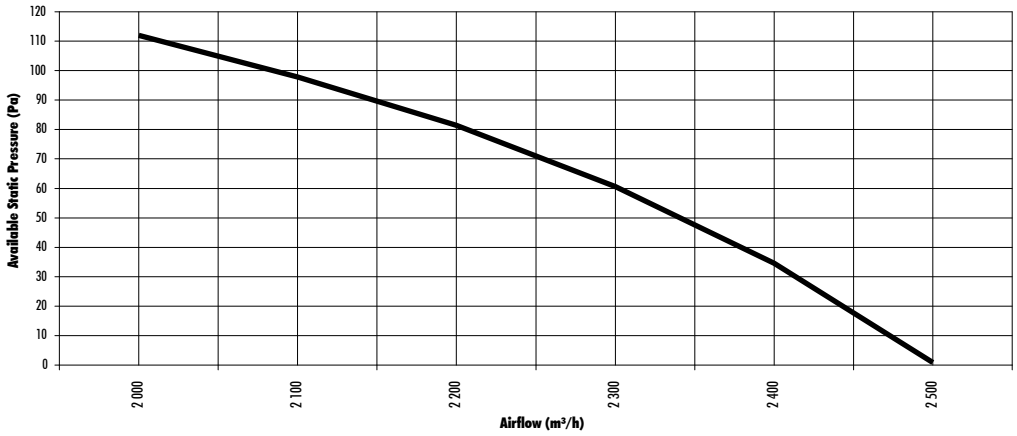


Size 104 - Max. airflow : 2300 m³/h - Min. airflow 1700 m³/h - Standard airflow : 2000 m³/h

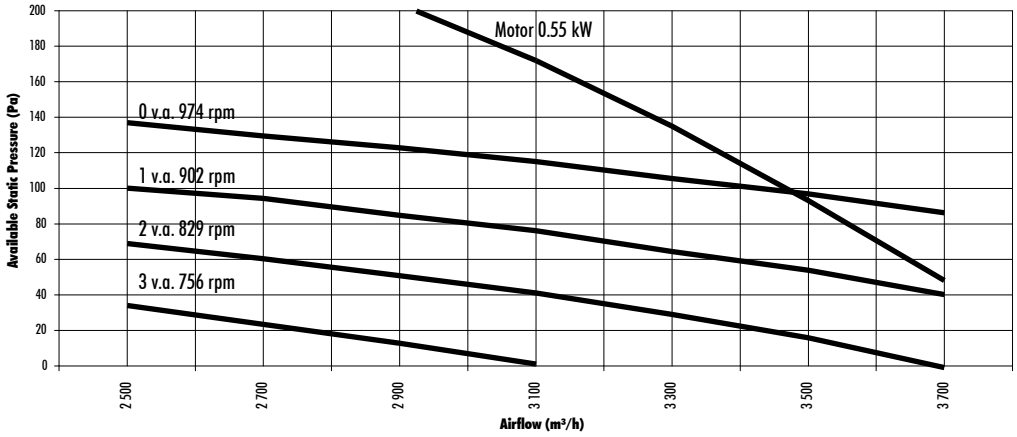


Internal Fan Curves (cont'd)

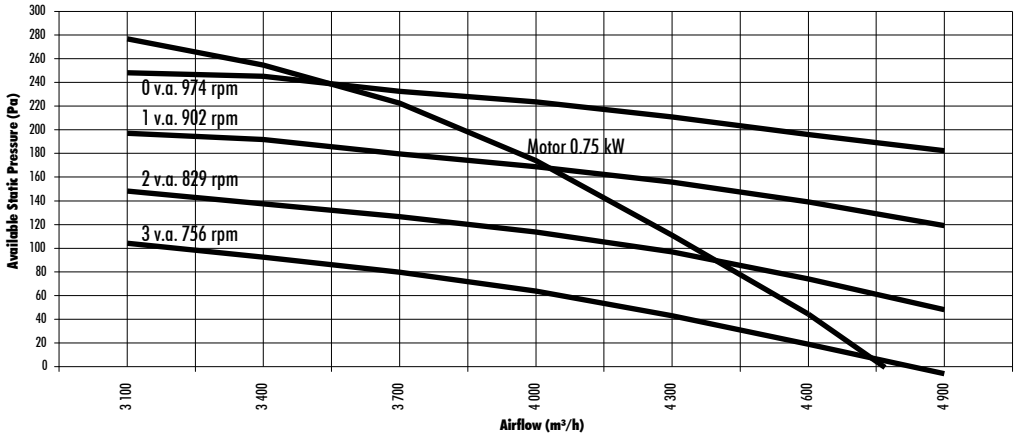
Size 124 - Max. airflow : 2500 m³/h - Min. airflow 2000 m³/h - Standard airflow : 2300 m³/h



Size 164 - Max. airflow : 3700 m³/h - Min. airflow 2500 m³/h - Standard airflow : 3100 m³/h

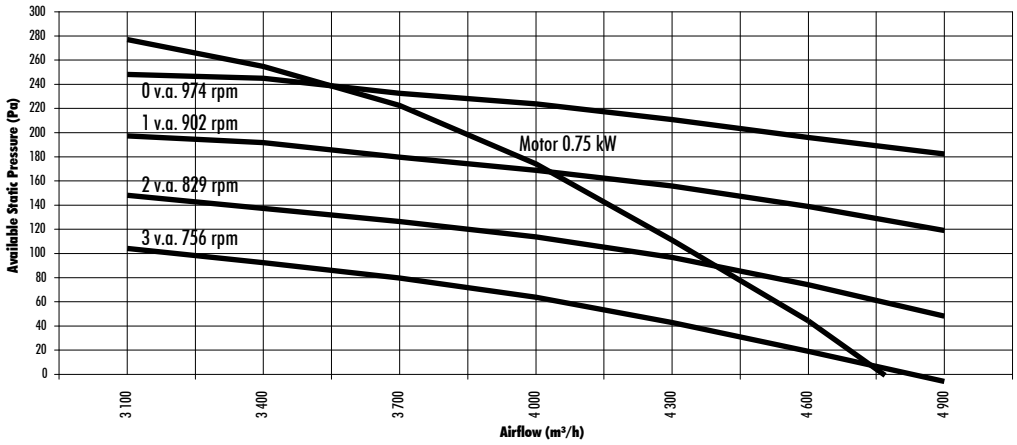


Size 204 - Max. airflow : 4400 m³/h - Min. airflow 3100 m³/h - Standard airflow : 4000 m³/h

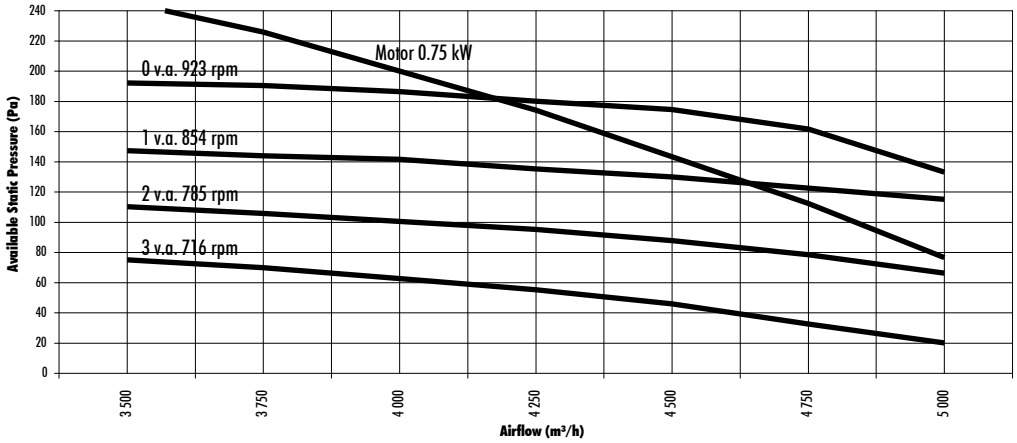


Internal Fan Curves (cont'd)

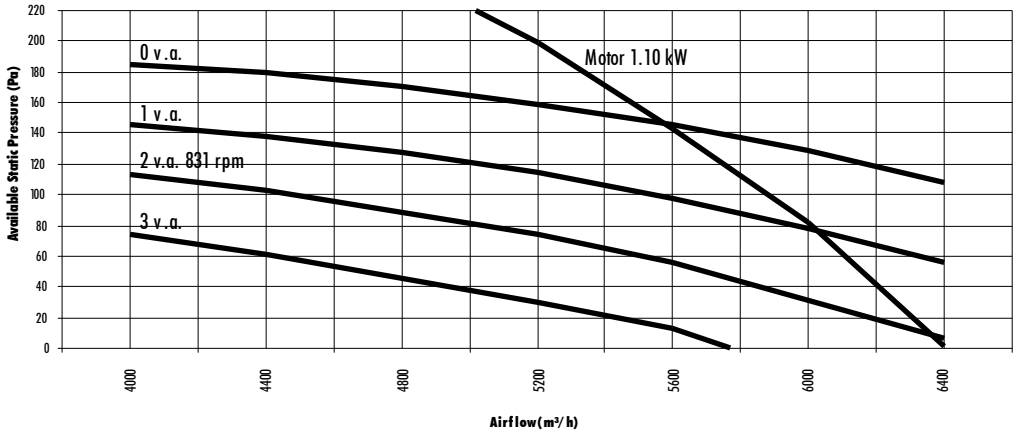
Size 224 - Max. airflow : 4400 m³/h - Min. airflow 3100 m³/h - Standard airflow : 4000 m³/h



Size 254 - Max. airflow : 5000 m³/h - Min. airflow 3500 m³/h - Standard airflow : 4250 m³/h

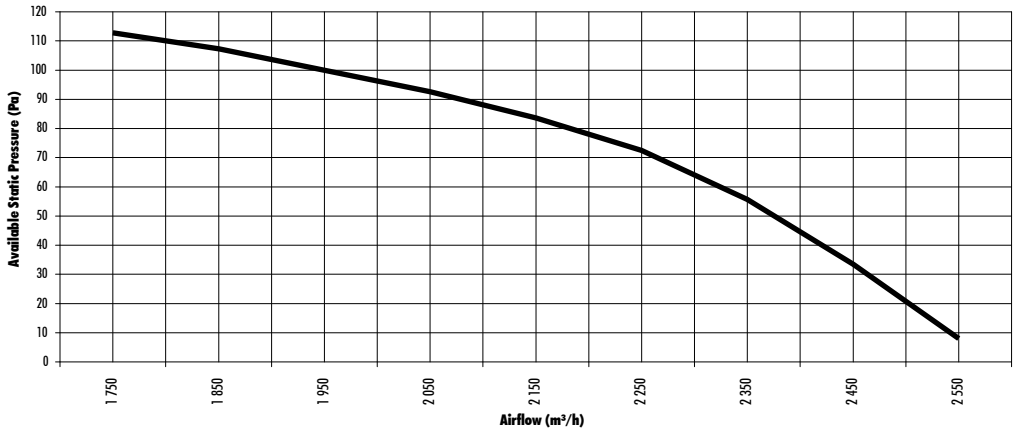


Size 304 - Max. airflow : 6000 m³/h - Min. airflow 4100 m³/h - Standard airflow : 5200 m³/h

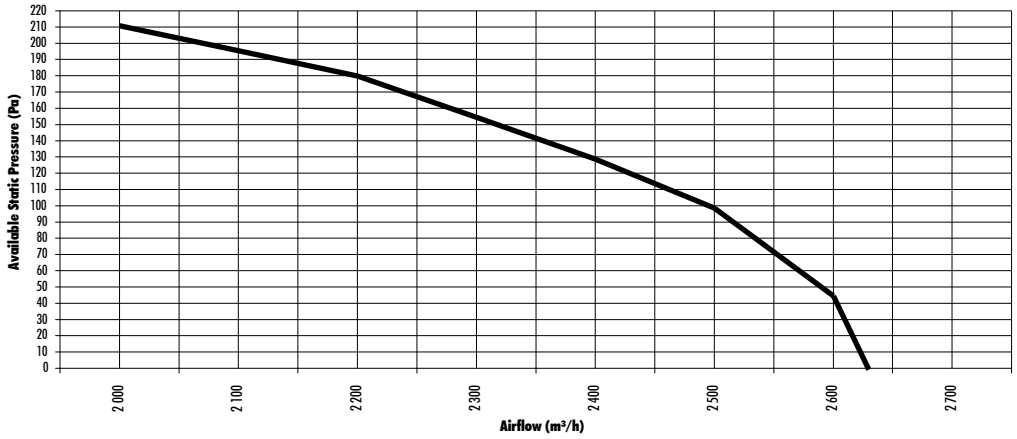


External Fan Curves

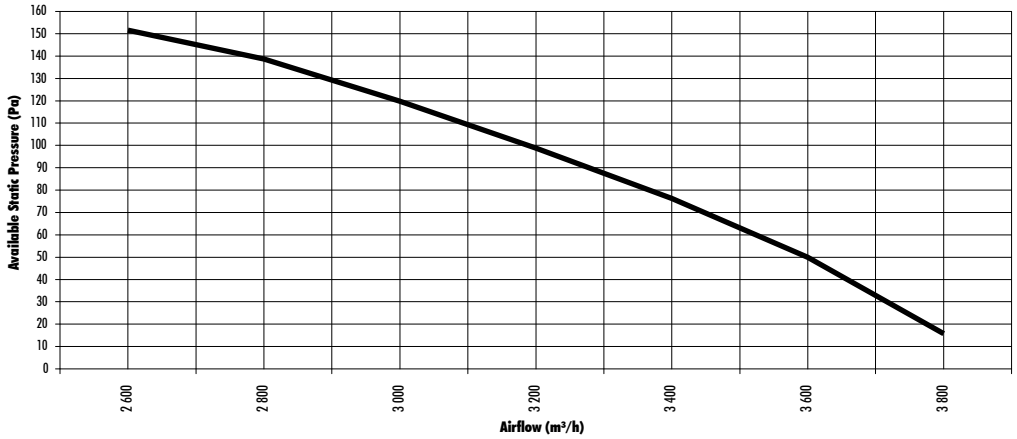
Size 064 - Max. airflow : 2550 m³/h - Min. airflow 1800 m³/h - Standard airflow : 2250 m³/h



Size 084 - Max. airflow : 2600 m³/h - Min. airflow 2100 m³/h - Standard airflow : 2500 m³/h

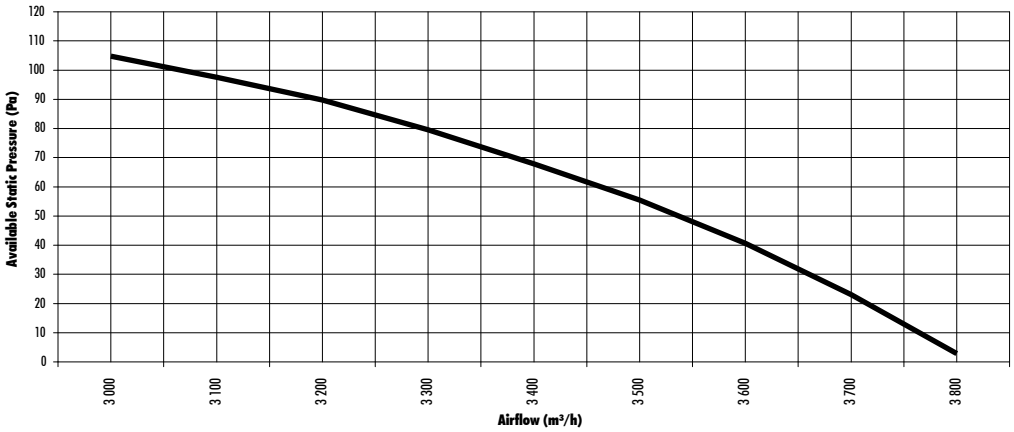


Size 104 - Max. airflow : 3700 m³/h - Min. airflow 2700 m³/h - Standard airflow : 3200 m³/h

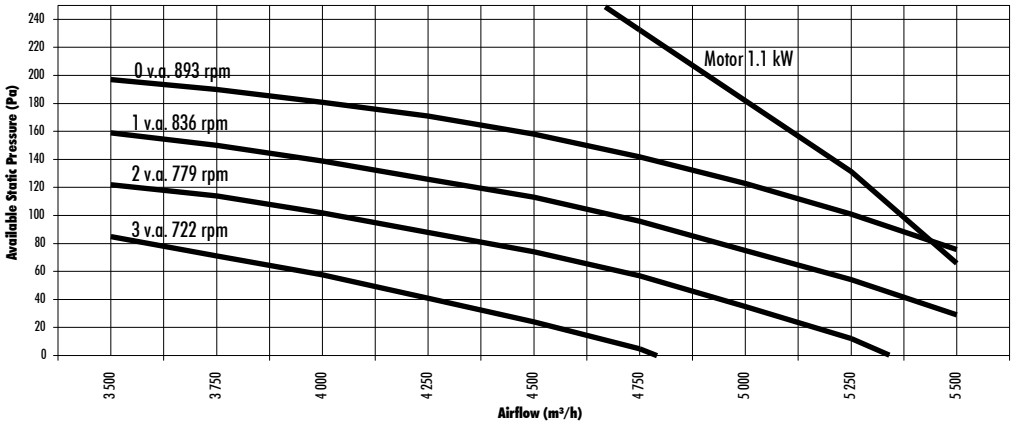


External Fan Curves (cont'd)

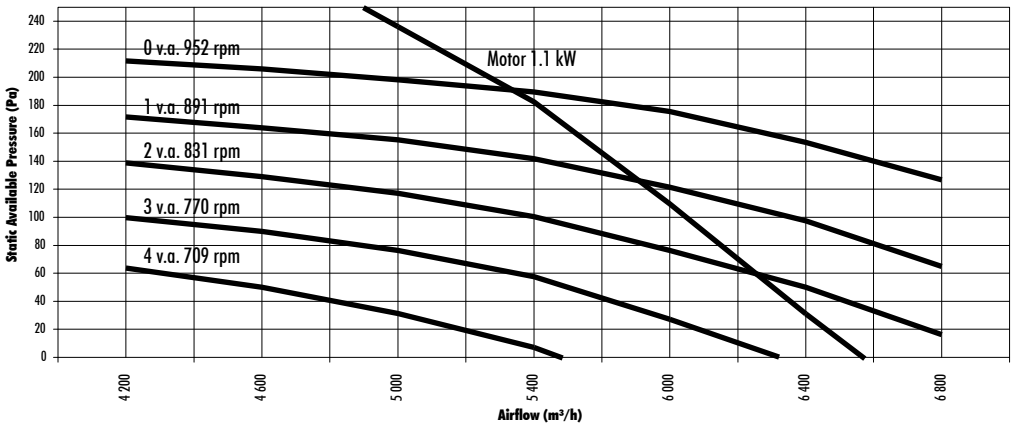
Size 124 - Max. airflow : 3700 m³/h - Min. airflow 3100 m³/h - Standard airflow : 3500 m³/h



Size 164 - Max. airflow : 5400 m³/h - Min. airflow 3600 m³/h - Standard airflow : 4500 m³/h

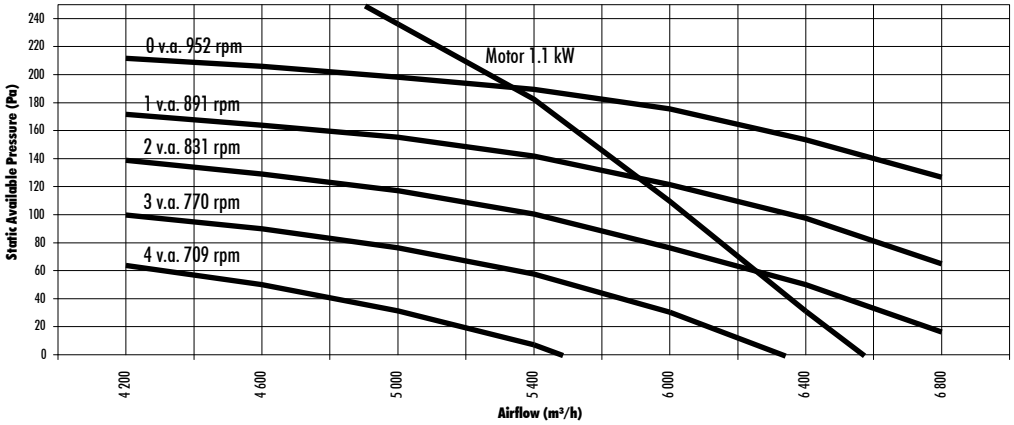


Size 204 - Max. airflow : 6200 m³/h - Min. airflow 4400 m³/h - Standard airflow : 5400 m³/h

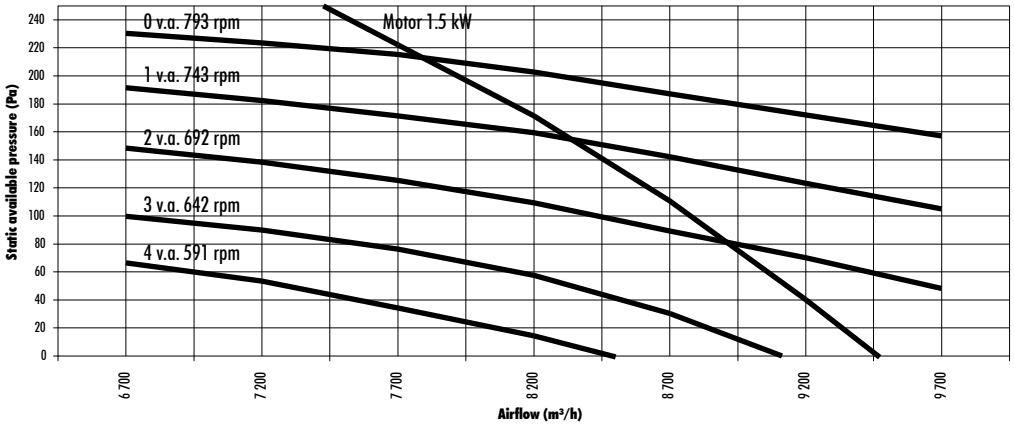


External Fan Curves (cont'd)

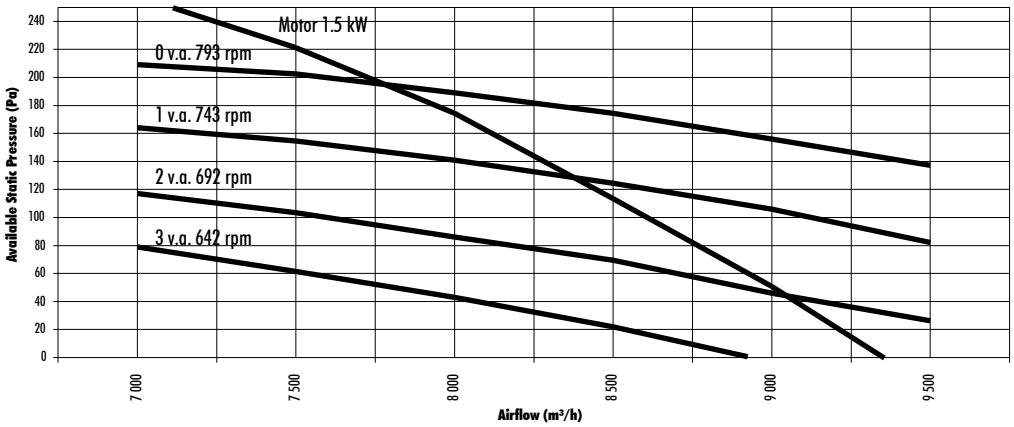
Size 224 - Max. airflow : 6200 m³/h - Min. airflow 4400 m³/h - Standard airflow : 5400 m³/h



Size 254 - Max. airflow : 9000 m³/h - Min. airflow 6800 m³/h - Standard airflow : 8200 m³/h

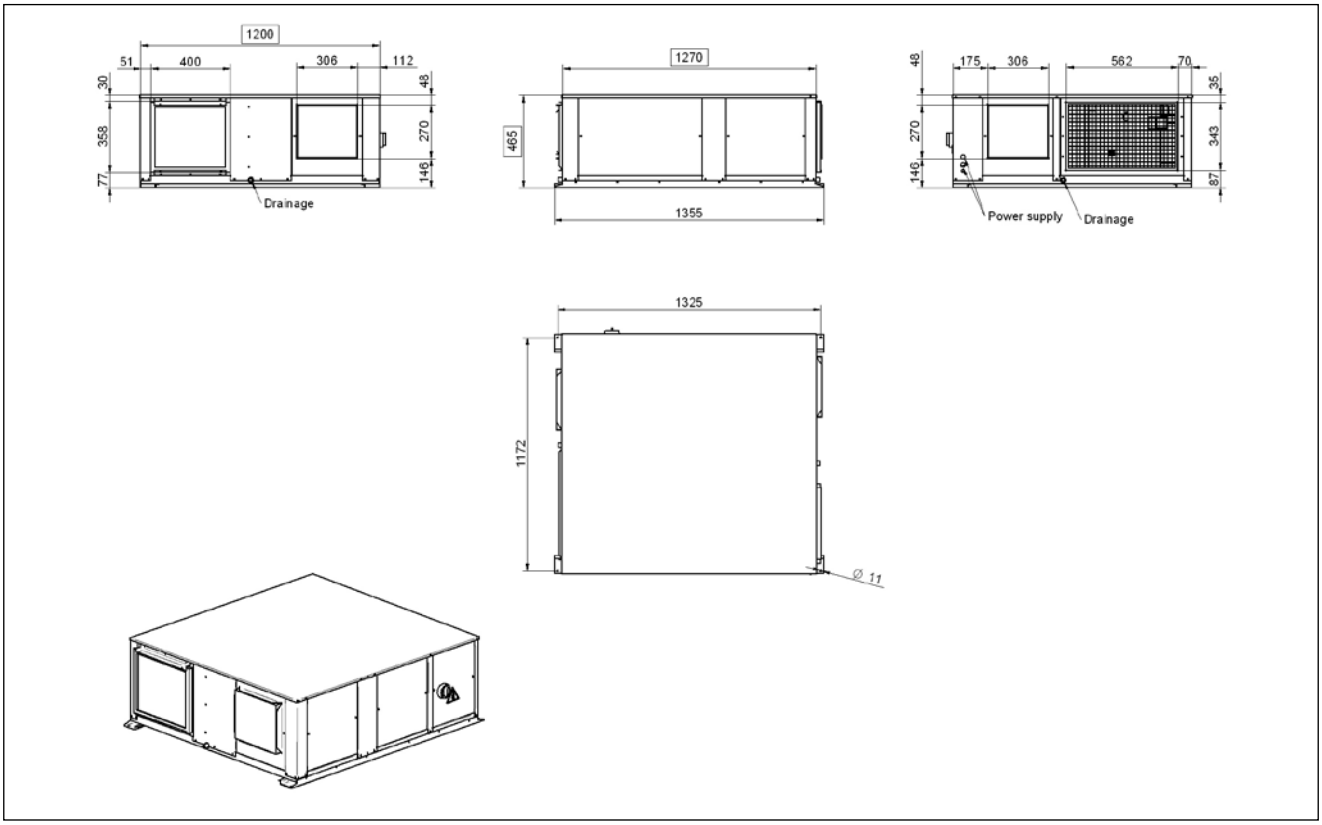


Size 304 - Max. airflow : 9300 m³/h - Min. airflow 7000 m³/h - Standard airflow : 8500 m³/h

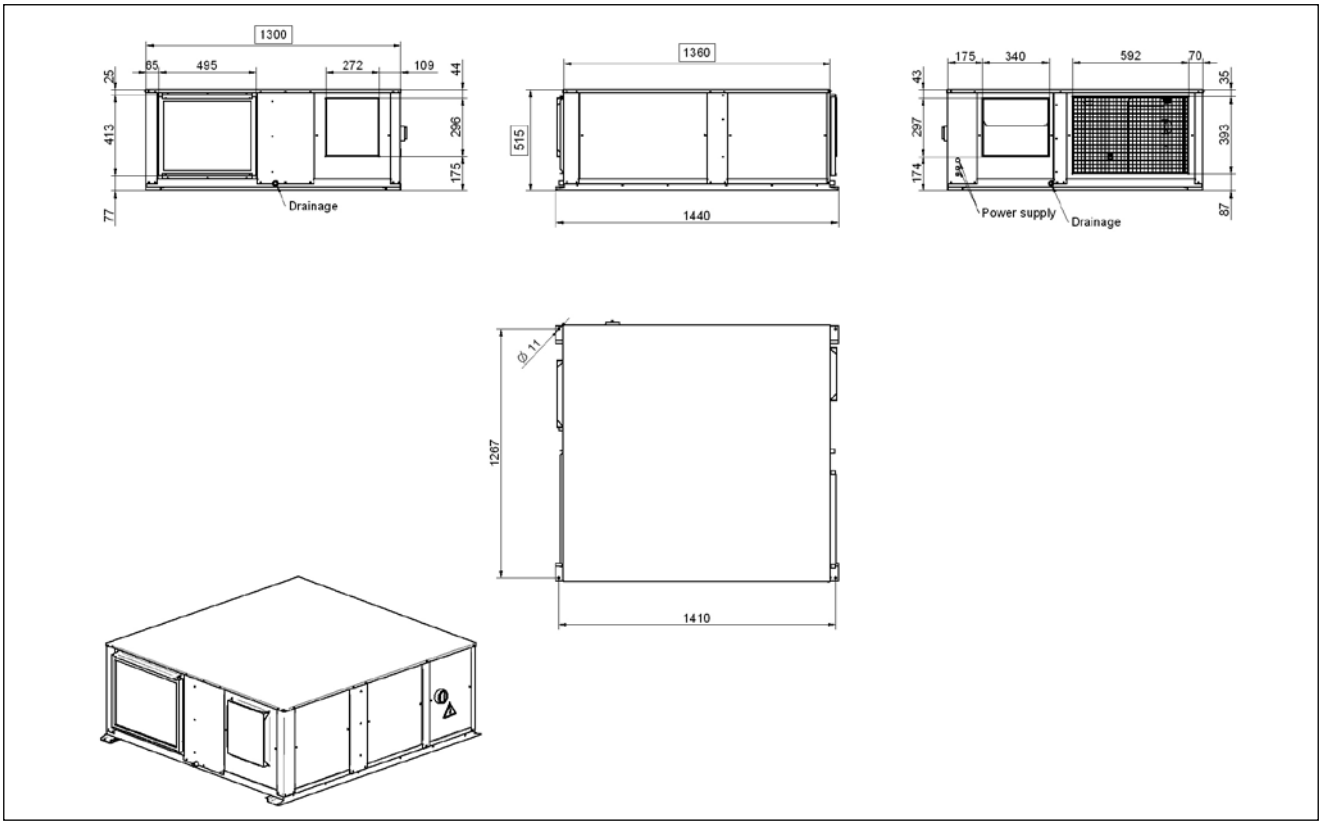


Dimensions

AHN 064-084

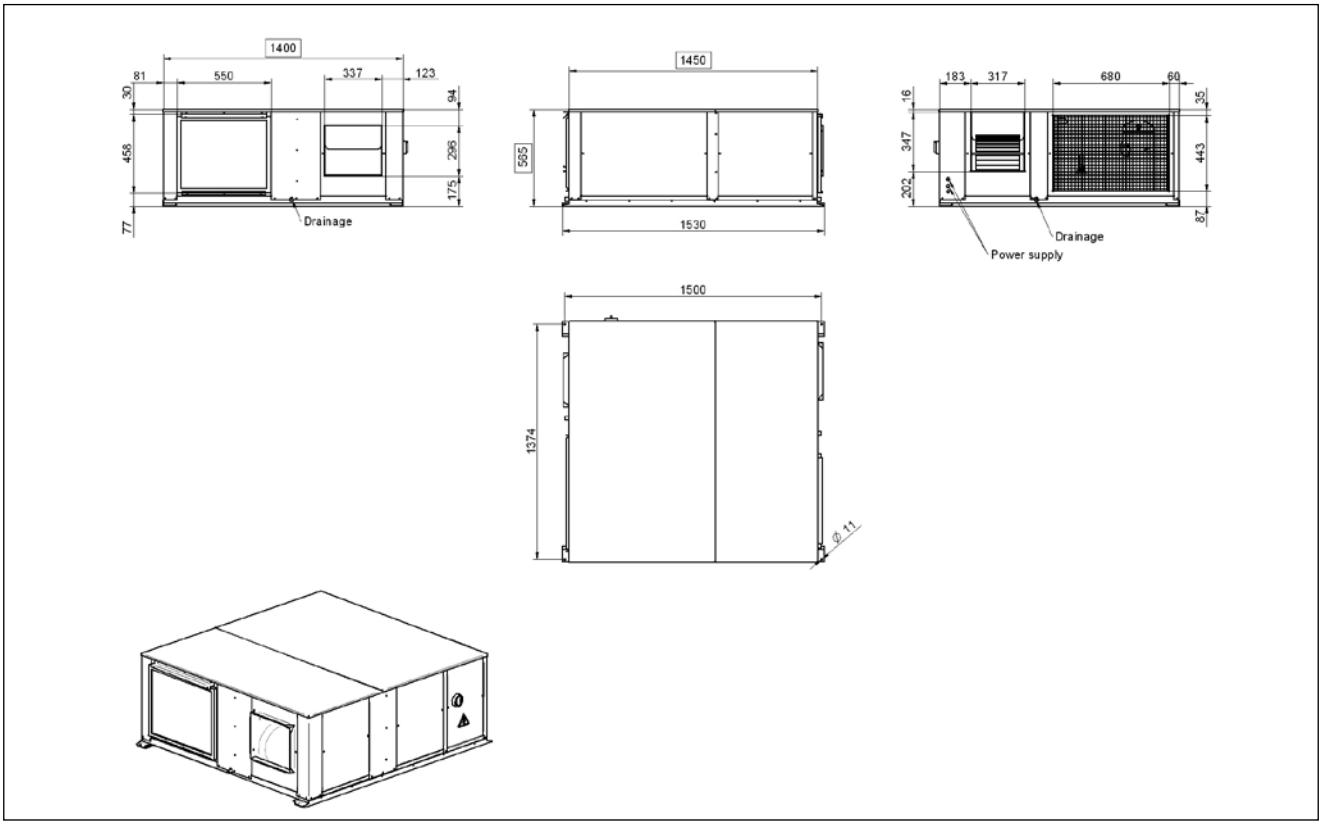


AHN 104-124

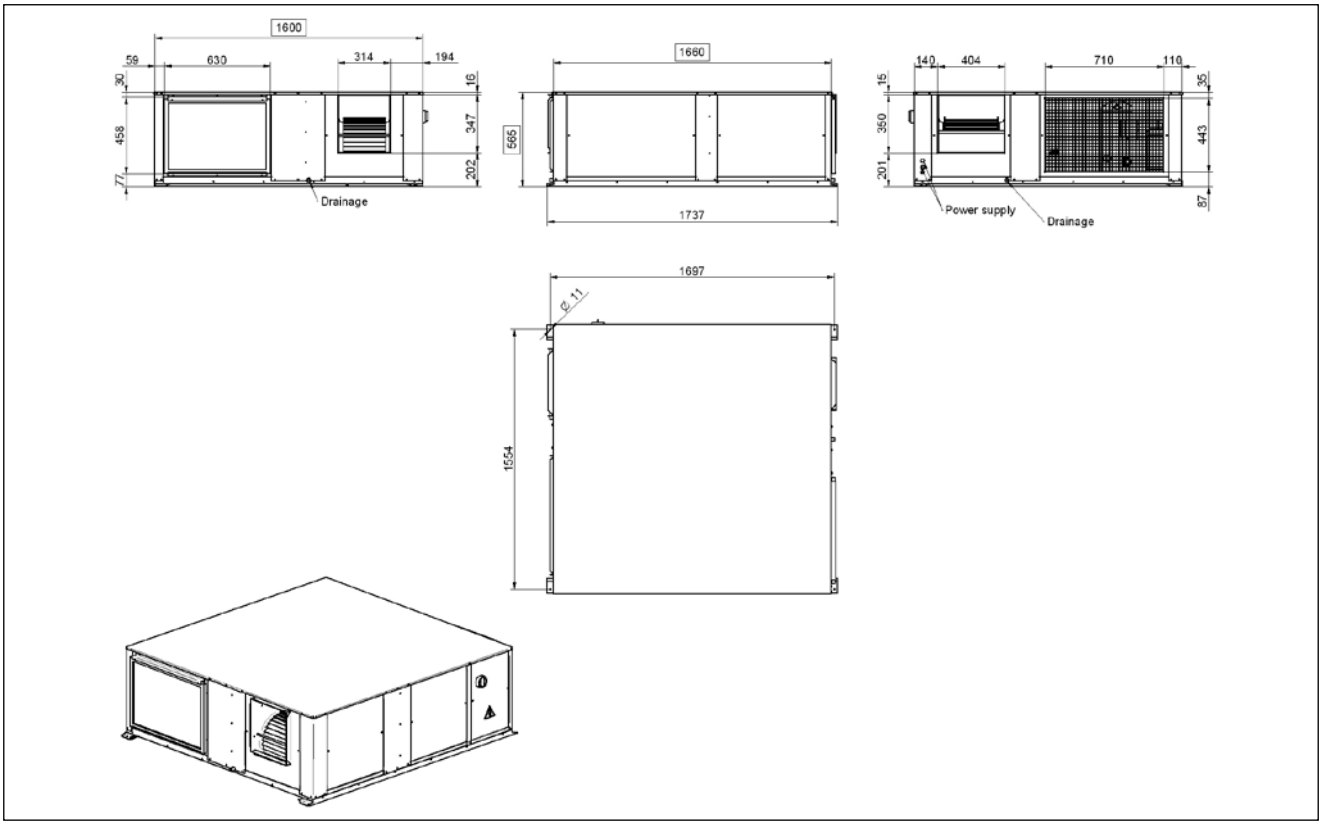


Dimensions (cont'd)

AHN 164

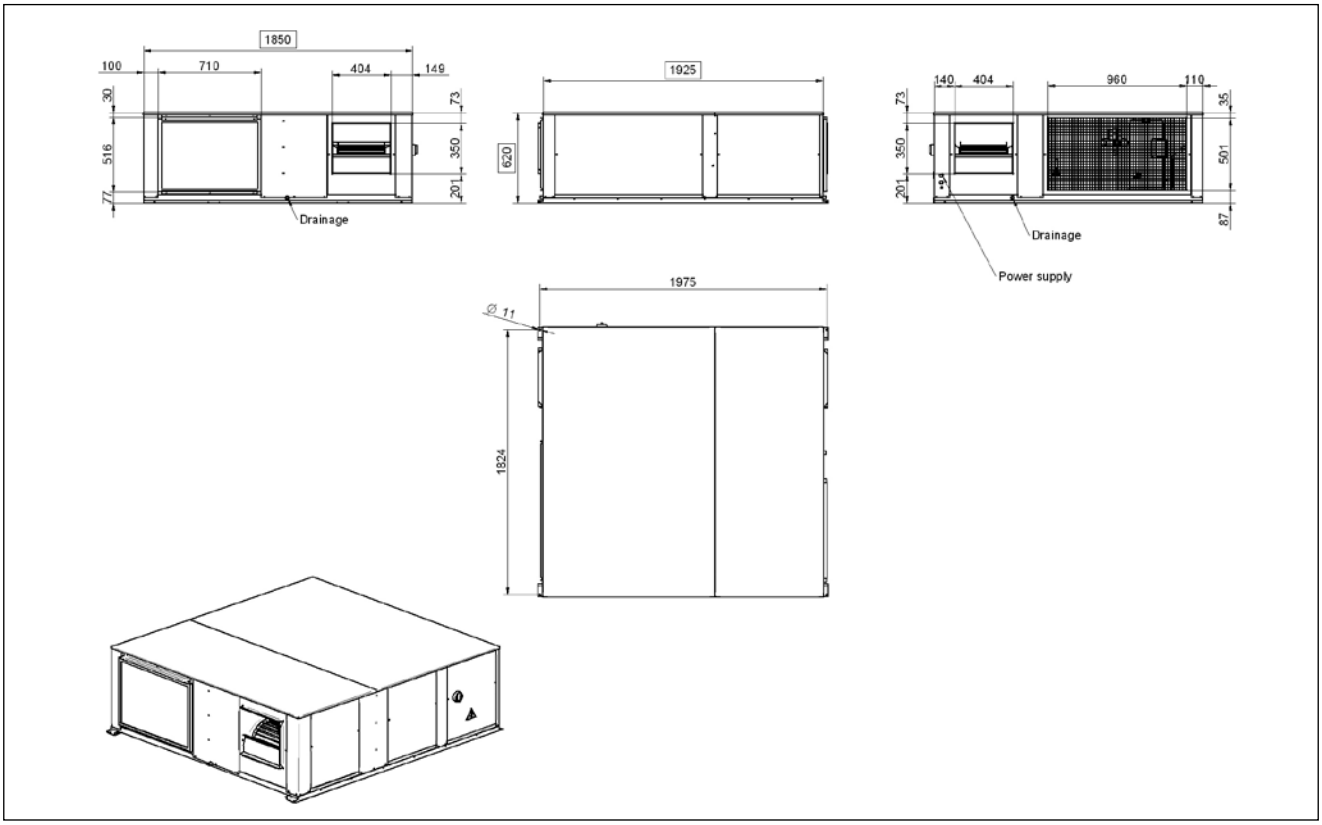


AHN 204-224



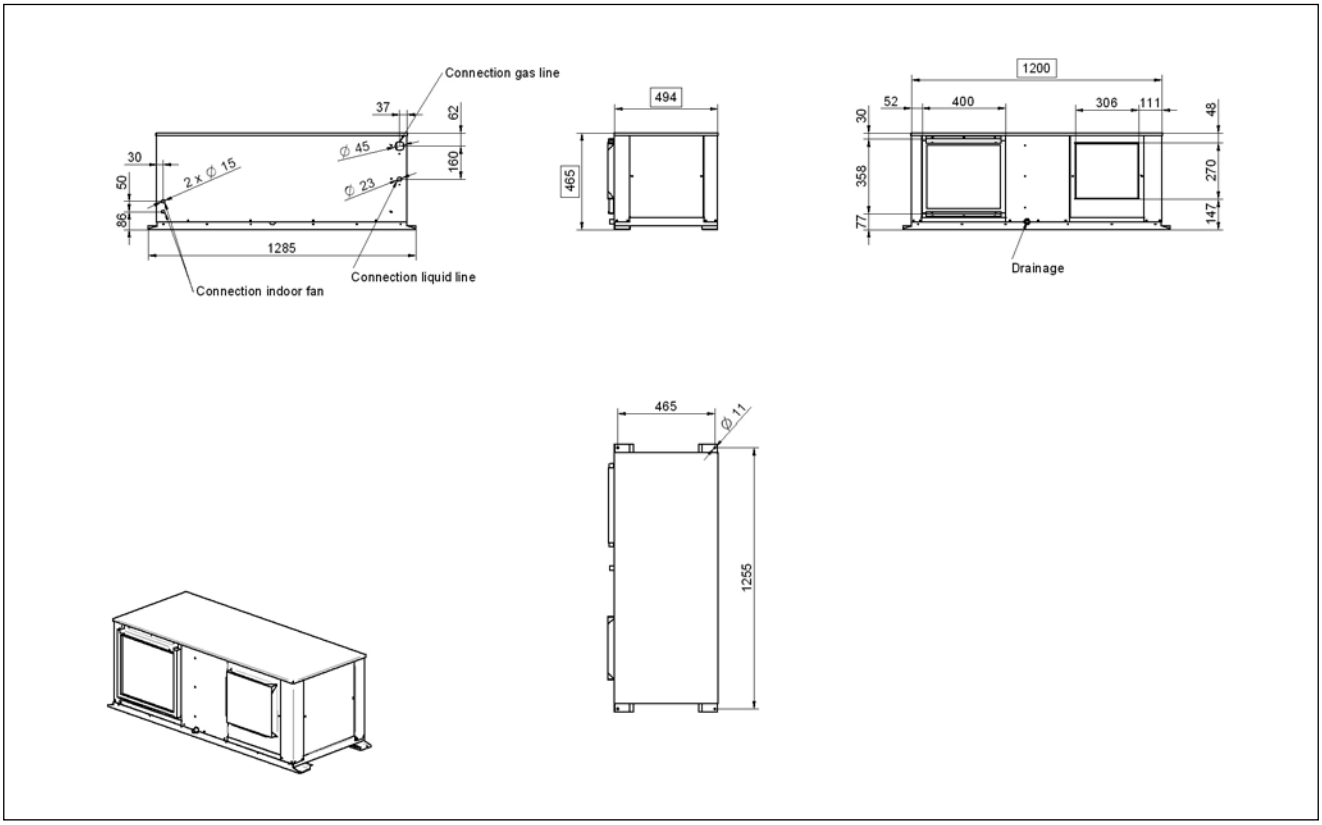
Dimensions (cont'd)

AHN 254-304

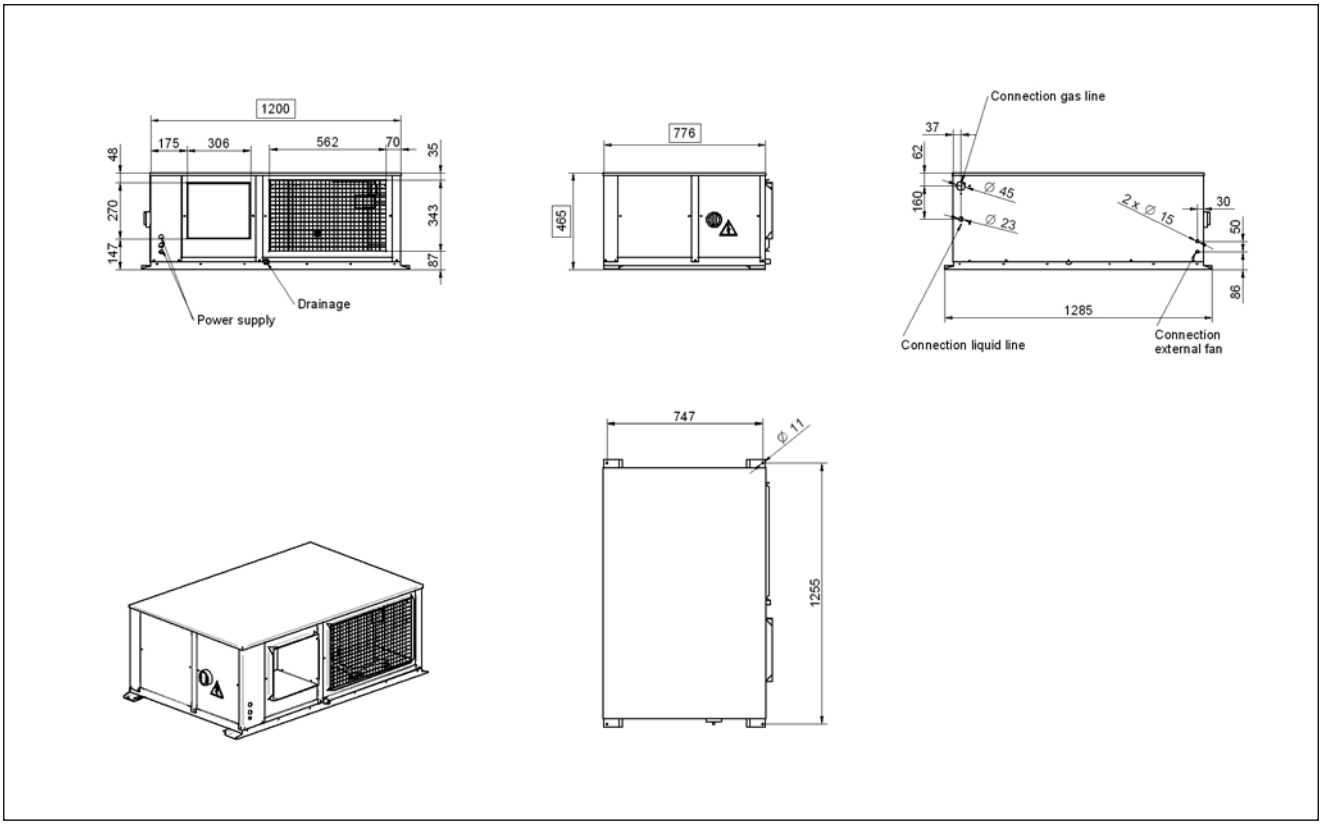


Dimensions (cont'd)

EHN 064-084

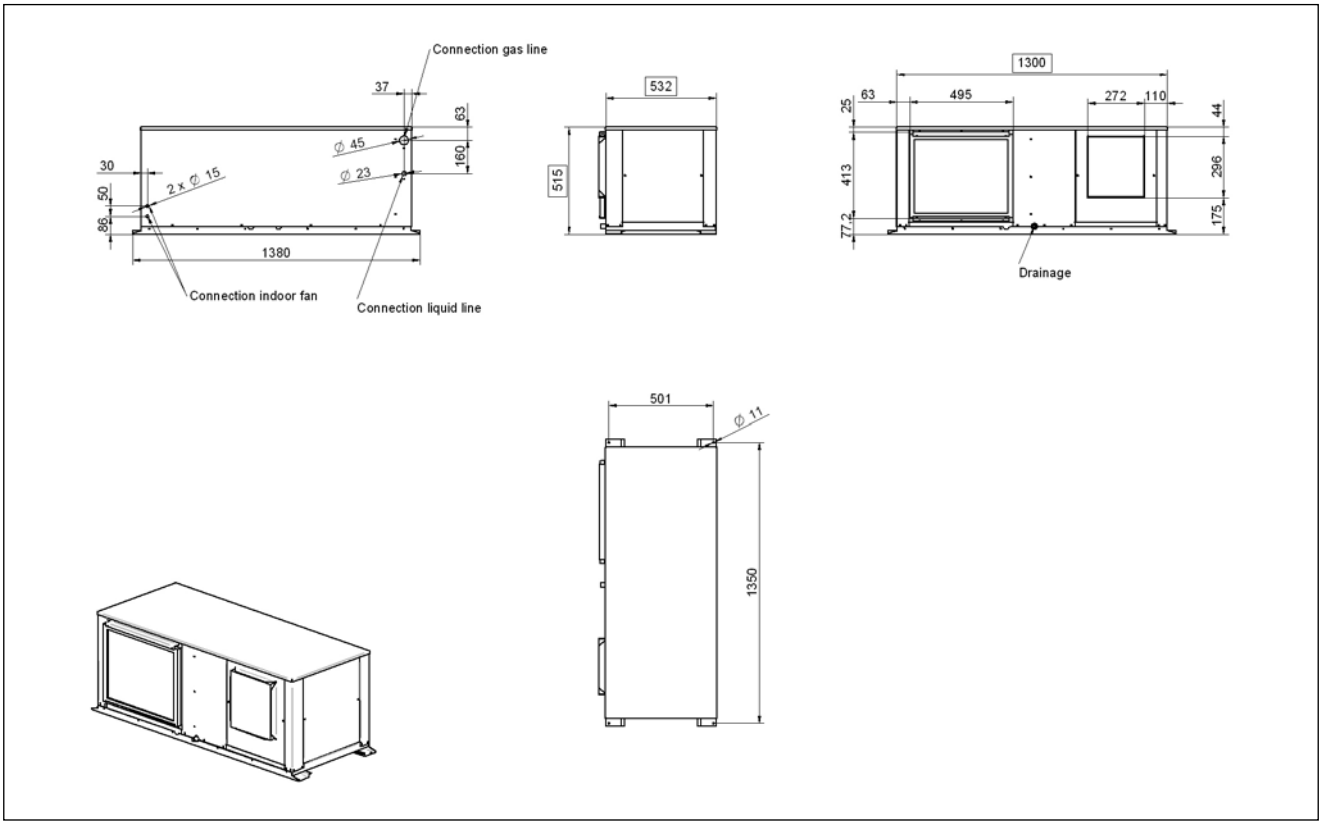


CHN 064-084

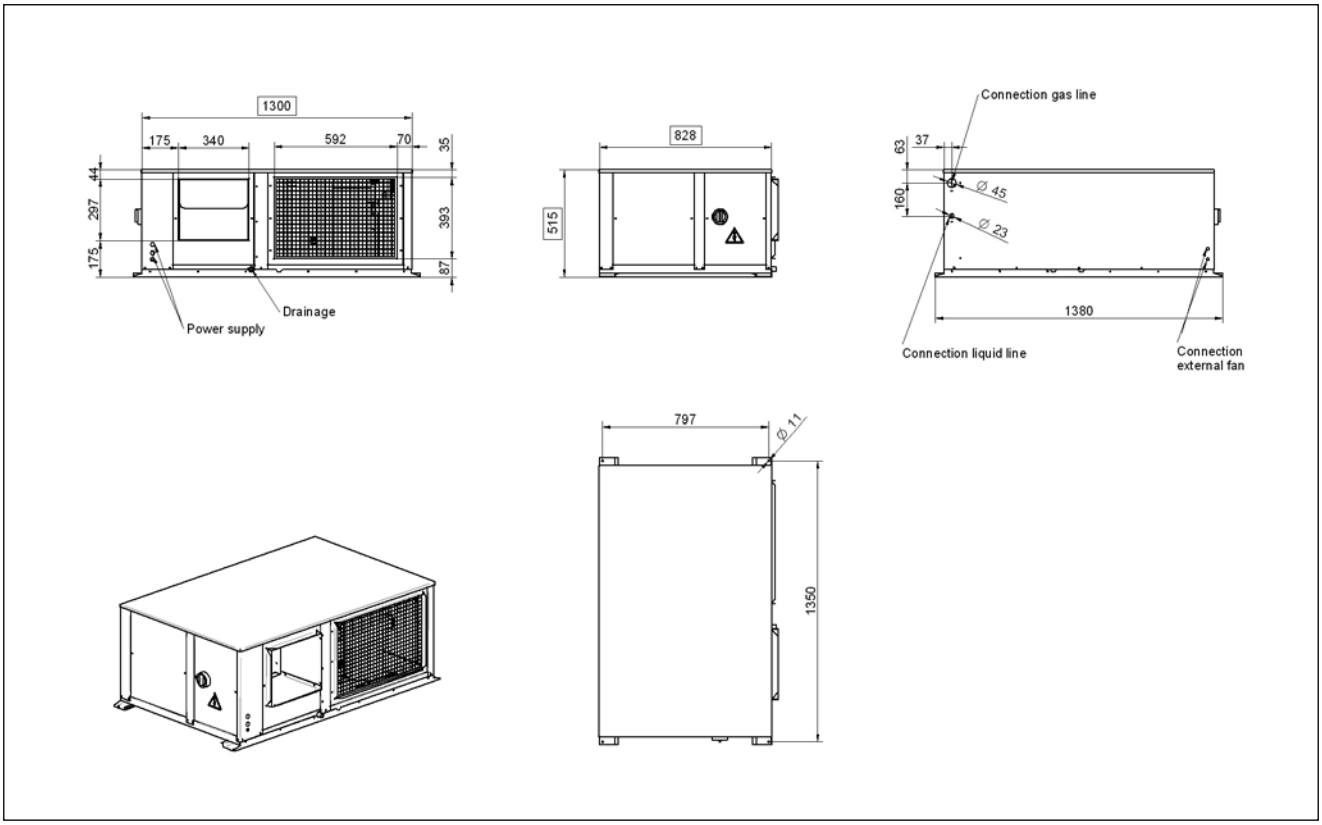


Dimensions (cont'd)

EHN 104-124

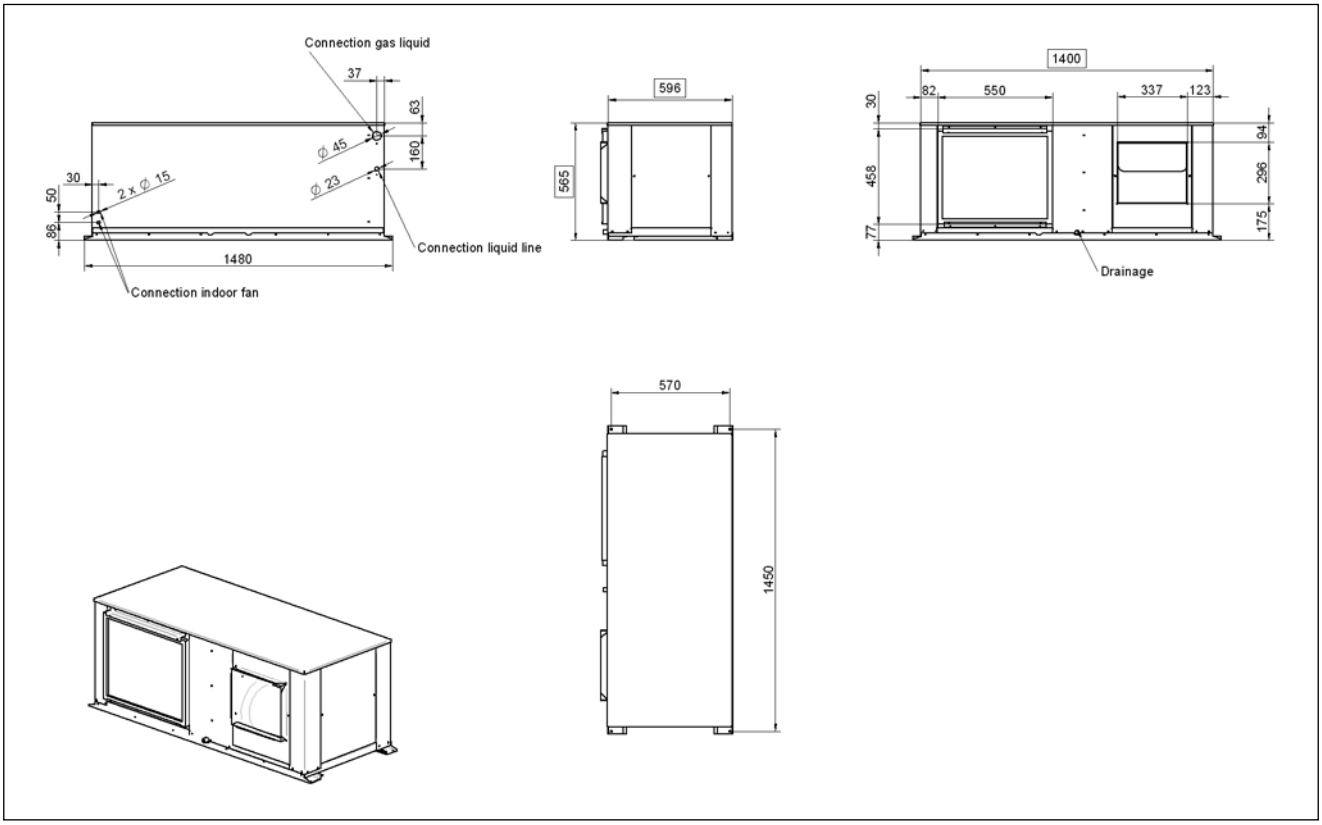


CHN 104-124

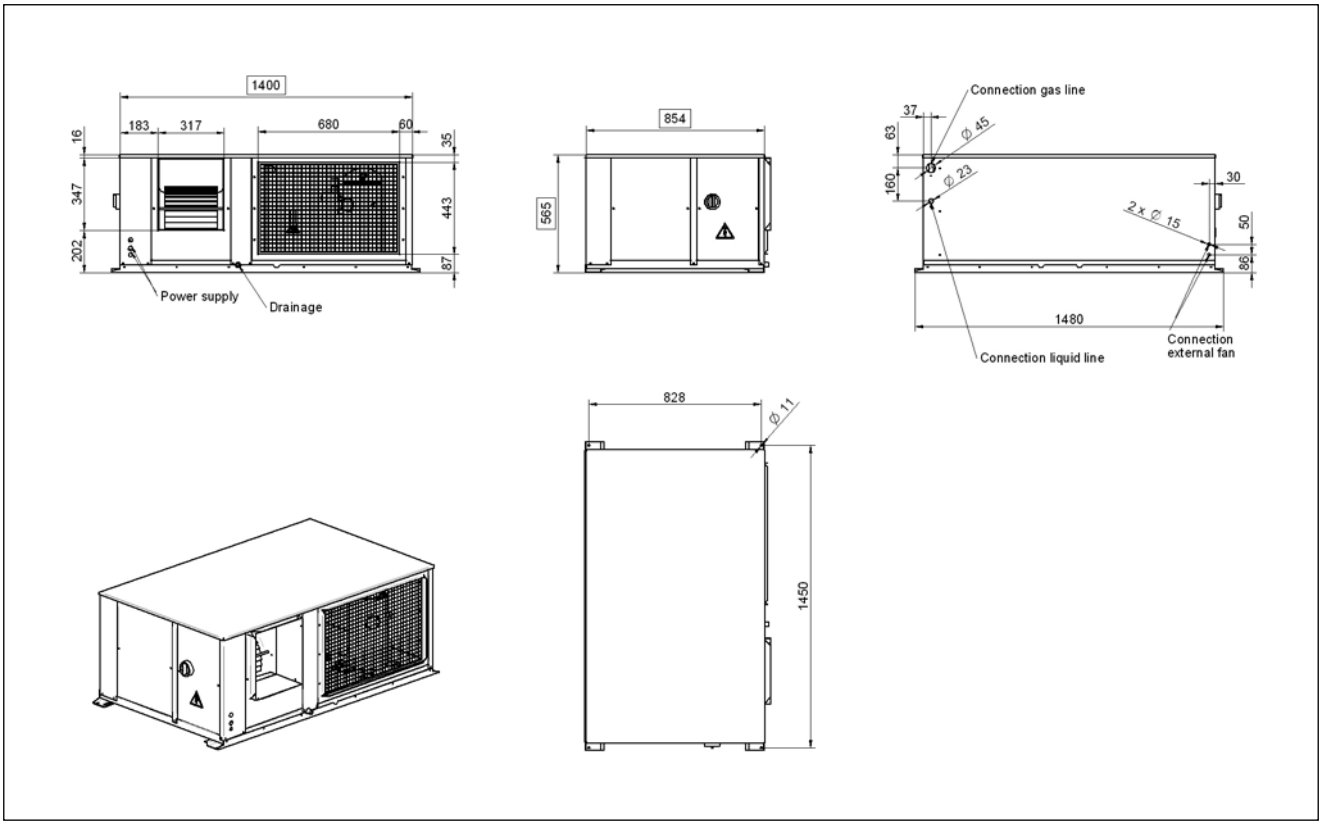


Dimensions (cont'd)

EHN 164

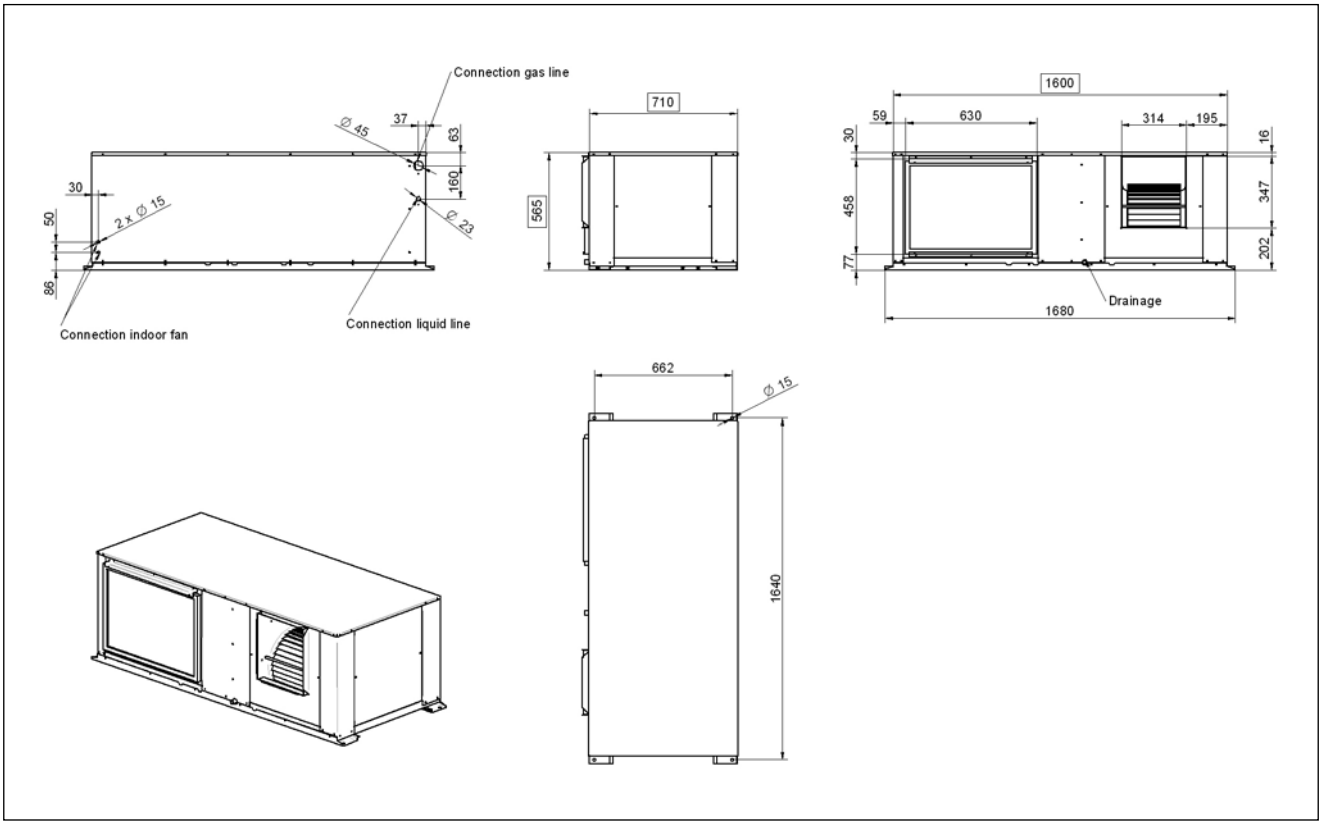


CHN 164

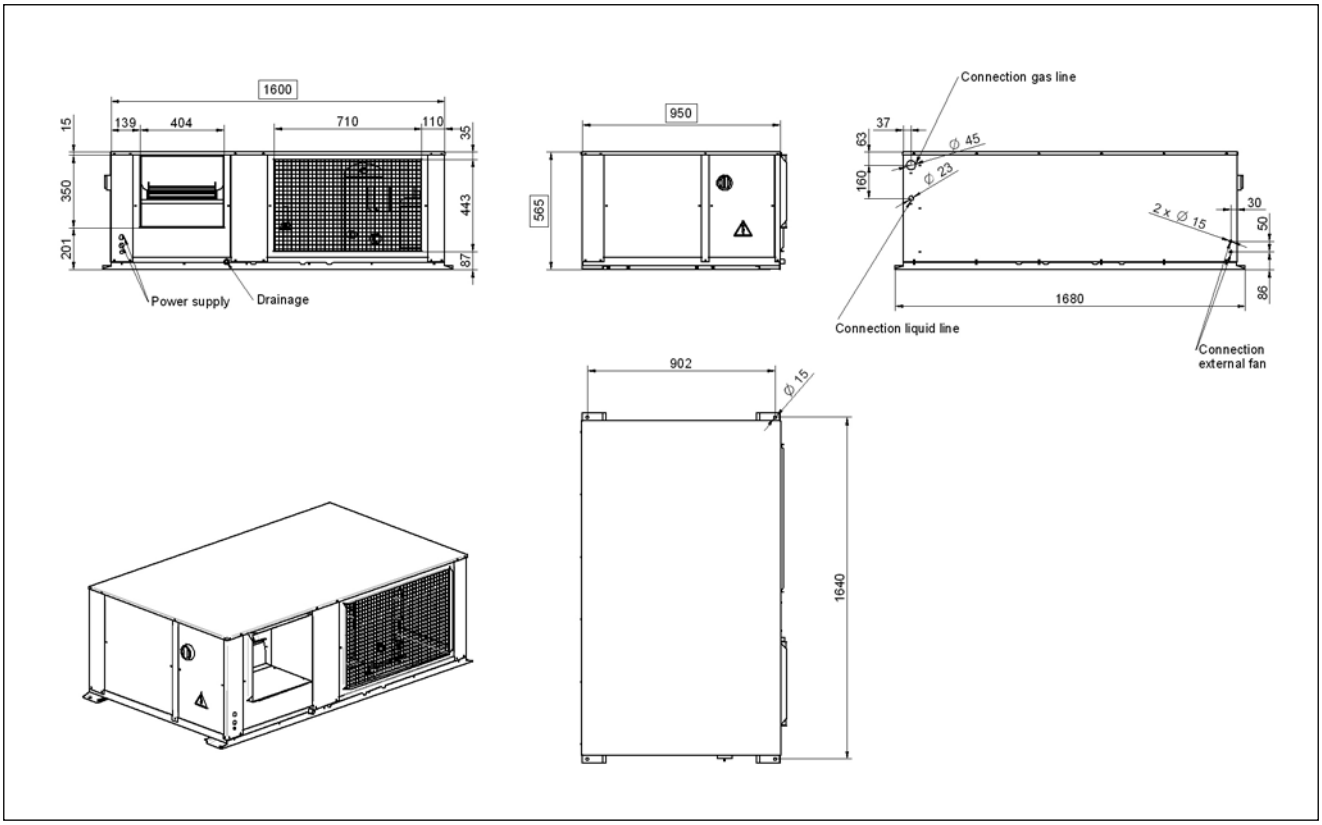


Dimensions (cont'd)

EHN 204-224

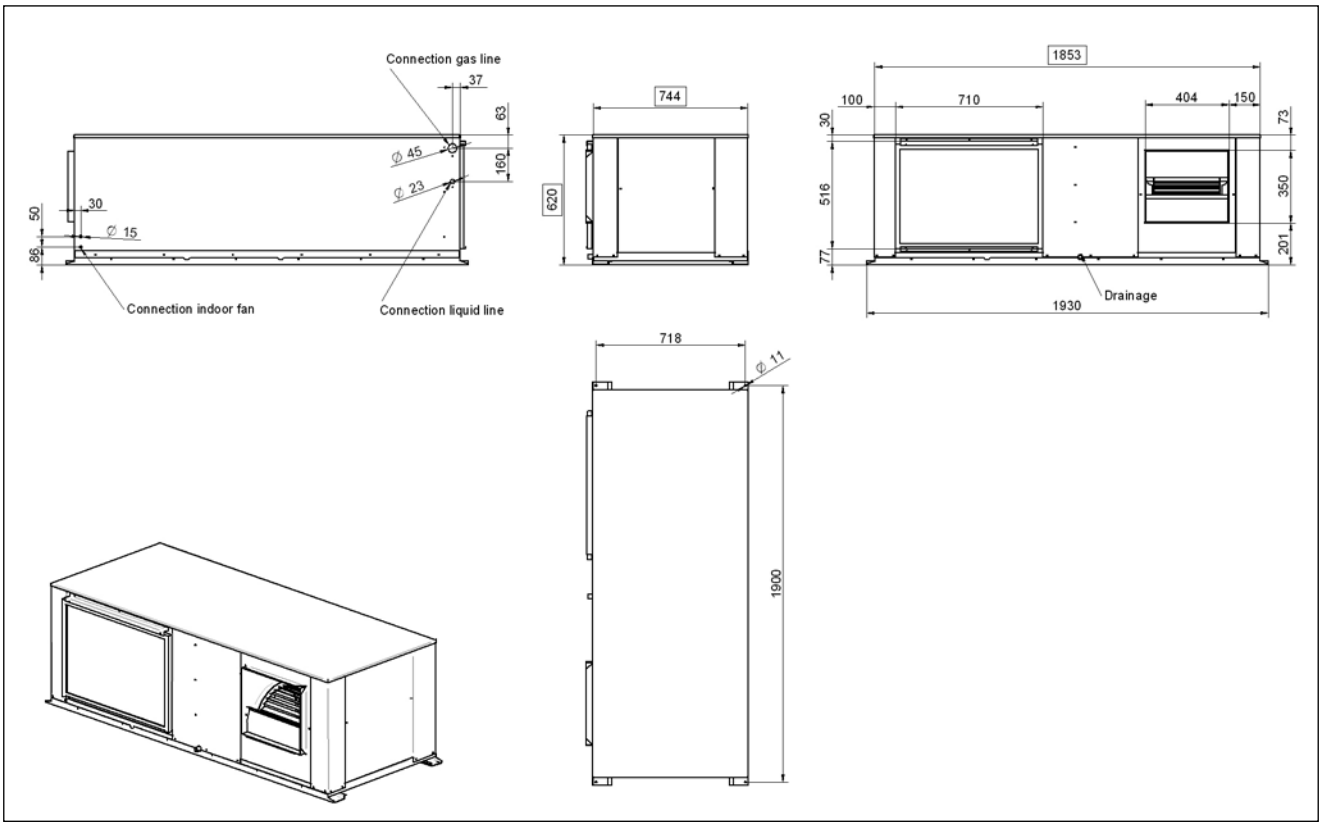


CHN 204-224

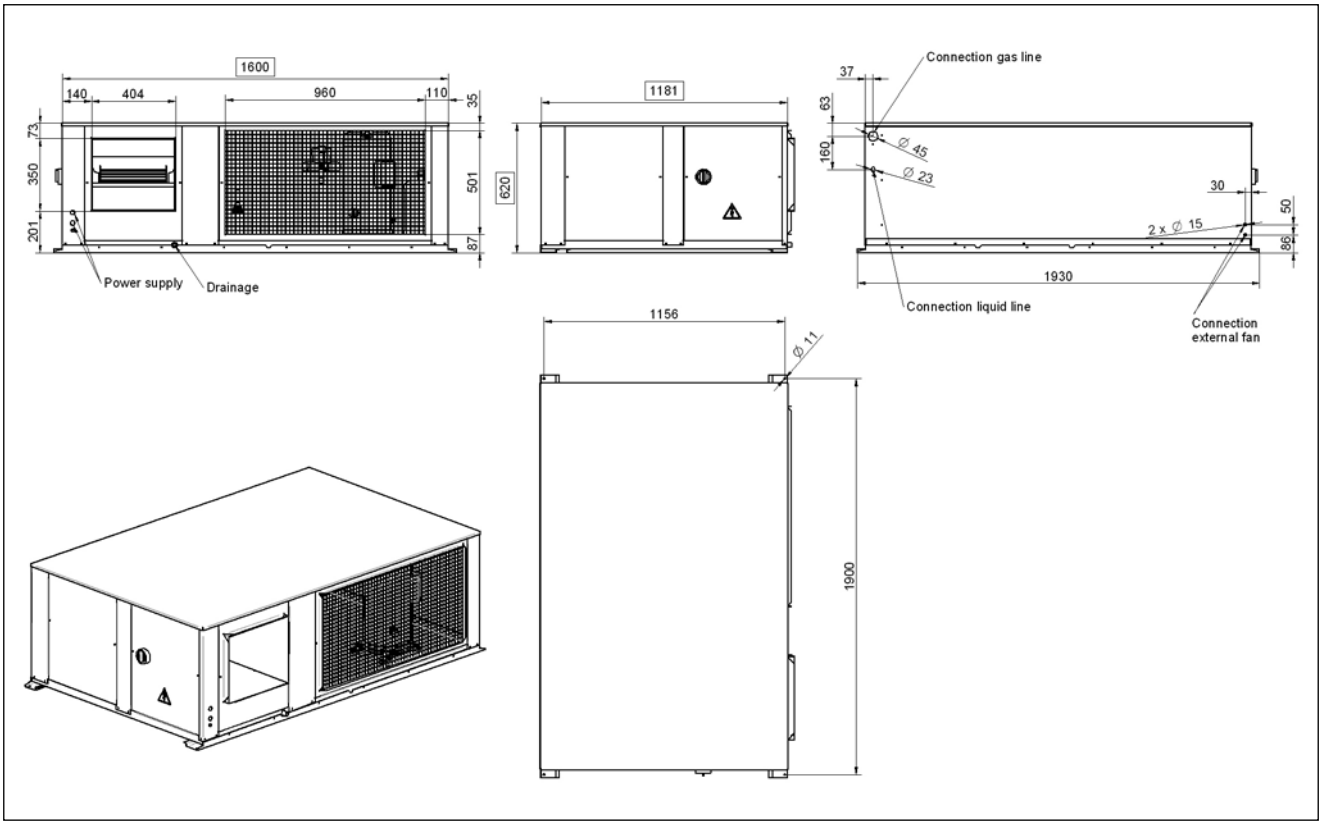


Dimensions (cont'd)

EHN 254-304

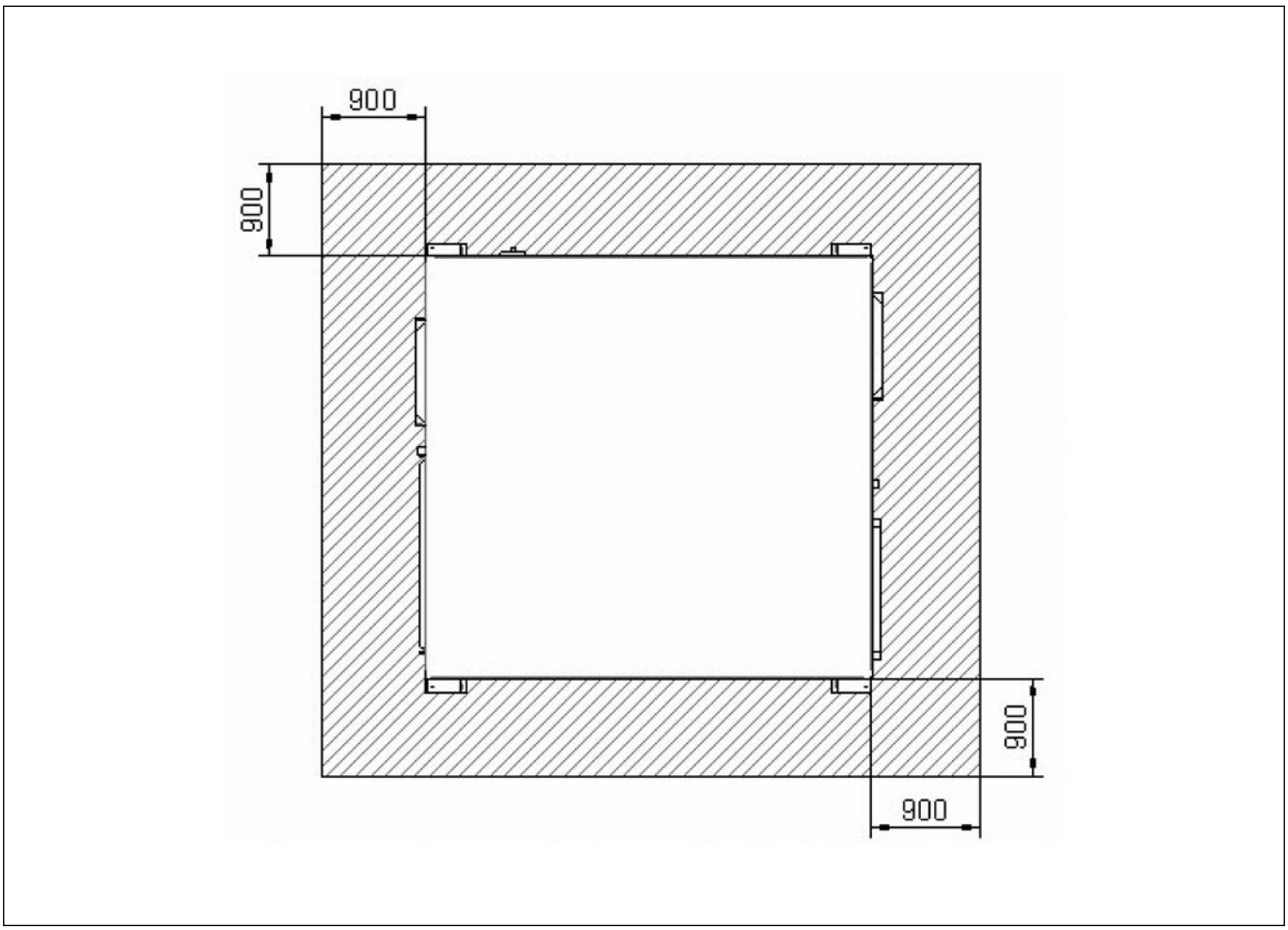


CHN 254-304



Servicing Area

The appliance must be planed on a flan, level and rigid surface and supplied with shock absorbers. In the picture below, minimum clearance to be provided for maintenance access (both package and split units)



Note

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