



Clivet participates in the EUROVENT "Liquid Chilling Packages and Hydronic Heat Pumps". The products concerned feature on the website www.eurovent-certification.com



compliant
ErP

ELFOENERGY MAGNUM HW

Reversible heat pump

Air cooled

Outdoor installation

Capacity from 86,0 to 150 kW

- ✓ Double independent circuits for high reliability with scroll compressors
- ✓ High water temperature solution for residential centralized systems
- ✓ Refrigerant R410A - GWP = 2088
- ✓ High full load and seasonal efficiency
- ✓ Domestic hot water up to 65°C
- ✓ Operation down to -20°C of outdoor air temperature with hot water at 55°C
- ✓ Partial energy recovery and user side DHW switching valve
- ✓ Integrated hydronic assembly and system tank

functions and features



Heat pump



AIR



Outdoor
installation



R-410A



Hermetic
Scroll



AxiTop

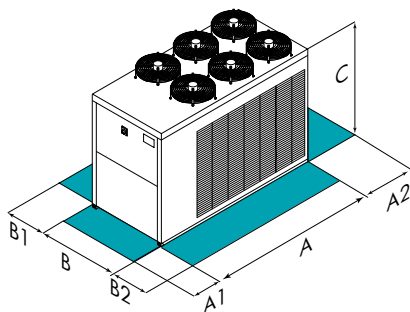


Vary Flow



Intelliplant

dimensions and clearances



Size	WSAN-XEM HW	35.4	40.4	45.4	50.4	55.4	60.4
A - Length	mm	3400	3400	3400	3400	4400	4400
B - Width	mm	1812	1812	1812	1812	1812	1812
C - Height	mm	1800	1800	1800	1800	1800	1800
A1	mm	1300	1300	1300	1300	1300	1300
A2	mm	750	750	750	750	750	750
B1	mm	1100	1100	1100	1100	1100	1100
B2	mm	1100	1100	1100	1100	1100	1100
Operating weight	kg	1285	1418	1441	1444	1735	1739

The above mentioned data are referred to standard units for the constructive configurations indicated.
For all the other configurations, refer to the relative Technical Bulletin.

CAUTION!

For trouble-free operation of the unit it is essential to maintain the safety distances indicated by the green areas.

versions and configurations

ENERGY RECOVERY:

- Energy recovery: not required (Standard)
- D Partial energy recovery

technical data

Size	▶▶ WSAN-XEM HW	35.4	40.4	45.4	50.4	55.4	60.4
♦ Cooling capacity (EN 14511:2022)	(1) kW	86,0	98,6	110	118	131	150
Total power input (EN 14511:2022)	(1) kW	31,3	35,3	37,3	41,6	48,3	54,6
EER (EN 14511:2022)	(1) -	2,74	2,80	2,95	2,84	2,72	2,74
SEER	(4) -	2,93	3,35	3,50	3,31	3,28	3,09
η _{s,c}	(4) %	114,2	131,0	137,0	129,4	128,2	120,6
♦ Heating capacity (EN 14511:2022)	(2) kW	109	123	133	143	165	184
Total power input (EN 14511:2022)	(2) kW	31,7	34,8	37,8	41,6	48,1	54,5
COP (EN 14511:2022)	(2) -	3,43	3,52	3,53	3,45	3,42	3,38
Refrigeration circuits	Nr				2		
No. of compressors	Nr				4		
Type of compressors	-				SCROLL		
Refrigerant	-				R-410A		
Standard airflow	l/s	16000	15567	15567	15567	20733	20733
Water flow-rate (User side)	l/s	5,25	5,91	6,43	6,92	7,95	8,89
Standard power supply	V				400/3N~/50		
Sound power level	(3) dB(A)	86	86	86	86	88	88
Directive ErP (Energy Related Products)							
SCOP - AVERAGE Climate - W35	(4) -	3,57	3,95	3,90	3,88	3,57	3,64
η _{s,h}	(4) %	140	155	153	152	140	143
SCOP - AVERAGE Climate - W55	(4) -	3,03	3,19	3,15	3,22	3,12	3,04
η _{s,h}	(4) %	118	125	123	126	122	119

(1) Data calculated in compliance with Standard EN 14511:2022 referred to the following conditions: Internal exchanger water temperature = 12/7°C; Outdoor heat exchanger inlet air temperature = 35°C
(2) Data calculated in compliance with Standard EN 14511:2022 referred to the following conditions: Internal exchanger water temperature = 40/45°C; Outdoor heat exchanger inlet air temperature 7 D.B. /6 (°C) W.B.
(3) Sound pressure levels are referred to units operating at nominal load in nominal conditions. Measurements are carried out accordingly to UNI EN ISO 9614-1 at nominal standard conditions defined in respective regulations: EU 2016/2281, UE 813/2013, UE 811/2013.

(4) Data calculated according to the EN 14825:2018 Regulation

The Product is compliant with the Erp (Energy Related Products) European Directive. It includes the Commission delegated Regulation (EU) No 811/2013 (rated heat output ≤70 kW at specified reference conditions), the Commission delegated Regulation (EU) No 813/2013 (rated heat output ≤400 kW at specified reference conditions).

accessories

- VARYP

HYG1

HYG2

VACSUX

ACC

CCCA

CCCA1

SFSTR

MF2

CMSC10

CMSLWX

CMSC8
- VARYFLOW + (2 inverter pumps)

Hydronic assembly with 1 ON/OFF pump

Hydronic assembly with 2 ON/OFF pumps

User side DHW switching valve

Storage tank

Copper / aluminium condenser coil with acrylic lining

Condenser coil with Aluminium Energy Guard DCC treatment

Disposal for inrush current reduction

Multi-function phase monitor

Serial communication module for LonWorks supervisor

LonWorks serial communication module

Serial communication module for BACnet supervisor
- BACX

CMSC9

CMMBX

PFCP

PGFC

PGFCX

MHP

MHPX

IFWX

RCTX

AVIBX

IOTX
- BACnet serial communication module

Serial communication module for Modbus supervisor

Serial communication module to supervisor (Modbus)

Power factor correction capacitors (cosfi > 0.9)

Finned coil protection grill

Finned coil protection grill

High and low pressure gauges

High and low pressure gauges

Steel mesh strainer on the water side

Remote control

Anti-vibration mount support

IoT industrial module for cloud based interoperability & services

Accessories whose code ends with "X" are supplied separately