

ELFOENERGY DUCT MEDIUM

Air-cooled reversible heat pump for indoor installation

Capacity from 34,0 to 99,1 kW



Clivet participates in the EUROVENT "Liquid Chilling Packages and Hydronic Heat Pumps".
Check ongoing validity of certificate on www.eurovent-certification.com



Heat pump



Air cooled



Indoor installation



R-410A



Hermetic Scroll



Electronic expansion valve



Electronically commutated Fan



INTELLIPLANT



ErP compliant

- ✓ Scroll compressors with high available head Plug-fans
- ✓ Ductable solution for small and medium-sized buildings air conditioning
- ✓ Refrigerant R410A - GWP = 2088
- ✓ High efficiency with compact dimensions
- ✓ Versatility with the different solutions for supply and return of air
- ✓ Hot water up to +55°C and wide operating range down to -10°C
- ✓ Modular operation management, up to 8 units in cascade
- ✓ Integrated hydronic assembly and partial recovery

Versions and configurations

LOW TEMPERATURE:

- Low temperature: not required (Standard)
- B Water low temperature

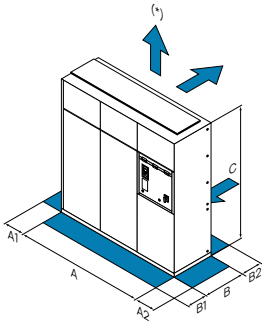
CONFIGURATION:

- EV Vertical air expulsion (Standard)
- EO Horizontal exhaust air

ENERGY RECOVERY:

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

Dimensions and connections



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

Size	WSN-XEE	122	162	182	222	262	302	352	402
A - Length	mm	1450	1450	1874	1874	2650	2650	2650	2650
B - Width	mm	780	780	780	780	780	780	780	780
C - Height	mm	1996	1996	1996	1996	1996	1996	1996	1996
A1	mm	100	100	100	100	100	100	100	100
A2	mm	500	500	500	500	500	500	500	500
B1	mm	1000	1000	1000	1000	1000	1000	1000	1000
B2	mm	1300	1300	1300	1300	1300	1300	1300	1300
Operating weight	kg	501	555	620	626	732	770	874	904

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.

Technical data

Size	WSN-XEE	122	162	182	222	262	302	352	402
Cooling capacity (EN 14511:2022)	(1) kW	34	41,2	47,8	54,7	64,8	75,2	86,6	99,1
Total power input (EN 14511:2022)	(1) kW	16,6	18,3	21,5	25,9	28,8	32,9	39,2	43,5
EER (EN 14511:2022)	(1) -	2,05	2,25	2,22	2,11	2,25	2,28	2,21	2,28
SEER	(4) -	2,63	3,10	3,17	3,08	3,36	3,31	3,32	3,40
$\eta_{s,c}$	(4) %	102,3	121,1	124,0	120,0	131,5	129,5	129,9	133,0
Heating capacity (EN 14511:2022)	(2) kW	40,6	48,3	58,5	67,5	79,5	92,6	103	112
Total power input (EN 14511:2022)	(2) kW	13,8	16,2	19,8	22,5	26,5	30,6	34,5	38,7
COP (EN 14511:2022)	(2) -	2,95	2,98	2,96	3	3,01	3,02	2,98	2,88
Refrigeration circuits	Nr	1							
No. of compressors	Nr	2							
Type of compressors	-	SCROLL							
Refrigerant	-	R-410A							
Standard airflow	l/s	4444	4444	5000	5000	6667	7500	7500	7500
Max external static pressure	Pa	510	510	390	390	570	390	390	390
Water flow-rate (User side)	l/s	1,62	1,96	2,28	2,61	3,08	3,57	4,12	4,72
Standard power supply	V	400/3~/50							
Sound power in the duct	(3) dB(A)	84	84	87	87	84	87	87	87
Directive ErP (Energy Related Products)									
ErP Energy Class - AVERAGE Climate - W35	-	A+	A+	A+	A++	A+	A+	-	-
SCOP - AVERAGE Climate - W35	(4) -	3,25	3,31	3,51	3,94	3,75	3,36	3,50	3,80
$\eta_{s,h}$	(4) %	127	129	137	155	147	131	137	149

(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 power measured in accordance with UNI EN ISO 9614 and Eurovent 8/1 standards

for ducted unit with available pressure equal to 120 Pa

(4) Data calculated according to the EN 14825:2022 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

1PUB	Low static pressure single pump	SCP4	Set-point compensation with 0-10V signal
1PUA	High static pressure single pump	SPC2	Set-point compensation with outdoor air temperature probe
1PUHE	High efficiency single inverter pump for primary circuit.	CSVX	Couple of manually operated shut-off valves
IFWX	Steel mesh filter on the water side	MF2	Multi-function phase monitor
ABU	Flush hydraulic connections	CONTA2	Energy meter
CCCA	Copper / aluminium condenser coil with acrylic lining	ECS	ECOSHARE function for the automatic management of a group of units
AMRX	Rubber antivibration mounts	RCMRX	Remote control via microprocessor control
PGFC	Finned coil protection grilles	PSX	Mains power supply
CMSC9	Serial communication module for Modbus supervisor	STSOL	Additional lifting brackets
CMSC10	Serial communication module for LonWorks supervisor	OHE	Limit extension kit in heating up to -10°C (W.B.)
CMSC11	Serial communication module for BACnet-IP supervisor	VACSUX	User side DHW switching valve
PFCC	Power factor correction capacitors (cosfi > 0.95)	IOTX	IoT industrial module for cloud based interoperability & services
SFSTR	Disposal for inrush current reduction		
FANQE	Electrical panel ventilation		
MHP	High and low pressure gauges		
SDV	Cutoff valve on compressor supply and return		

Accessories whose code ends with "X" are supplied separately