

## ELFOEnergy Duct Medium

### Reversible heat pump

Air cooled

Indoor installation

Capacity from 33,9 to 98,9 kW



- ✓ 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
- ✓ Operation down to -10°C of outdoor air temperature with hot water at 55°C
- ✓ Modular operation management, up to 8 units in cascade
- ✓ Integrated hydronic assembly and partial recovery

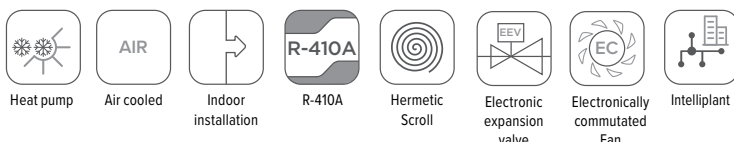


Clivet participates in the EUROVENT "Liquid Chilling Packages and Hydronic Heat Pumps". The products concerned feature on the website [www.eurovent-certification.com](http://www.eurovent-certification.com)

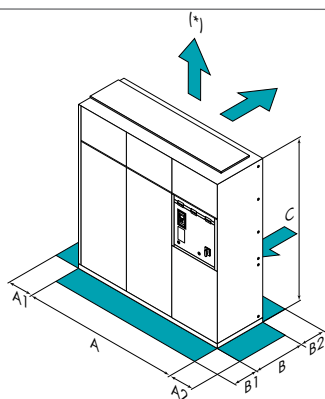


compliant  
ErP

### functions and features



### dimensions and clearances



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.

#### CAUTION!

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

## 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

## technical data

Size	▶▶ WSN-XEE	122	162	182	222	262	302	352	402
♦ Cooling capacity (EN 14511:2022)	(1) kW	33,9	41,0	47,6	54,5	64,5	75,0	86,3	98,9
Total power input (EN 14511:2022)	(1) kW	15,9	17,7	20,5	24,9	27,5	31,5	37,4	41,6
EER (EN 14511:2022)	(1) -	2,13	2,32	2,32	2,19	2,35	2,38	2,31	2,38
SEER	(4) -	2,63	3,10	3,17	3,08	3,36	3,31	3,32	3,40
$\eta_{sc}$	(4) %	102,3	121,1	124,0	120,0	131,5	129,5	129,9	133,0
♦ Heating capacity (EN 14511:2022)	(2) kW	41,0	48,3	59,0	68,0	80,0	92,4	103	112
Total power input (EN 14511:2022)	(2) kW	13,3	15,5	18,7	21,4	25,1	28,7	32,6	36,8
COP (EN 14511:2022)	(2) -	3,09	3,12	3,16	3,17	3,19	3,22	3,17	3,05
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
<b>Directive ErP (Energy Related Products)</b>									
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
$\eta_{SH}$	(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 14825:2018 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).

REF - DG24L504GB-01

## accessories

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

Accessories whose code ends with "X" are supplied separately