

SPINCHILLER3

Water-cooled reversible heat pump for indoor installation
Capacity from 211 to 390 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



Water cooled



Indoor installation



R-410A



Hermetic Scroll



Electronic expansion valve



HydroPack



Vary Flow



Intelliplant



ErP compliant

- ✓ Double independent circuits for high reliability with scroll compressors and plate heat exchangers
- ✓ Solution for multi-family and commercial buildings
- ✓ Refrigerant R410A - GWP = 2088
- ✓ Flexible operation: water/water or glycol water/water
- ✓ Hot water up to 55°C
- ✓ Modular operation management, up to 8 units in cascade
- ✓ Integrated source and user side hydronic assemblies and partial recovery

Versions and configurations

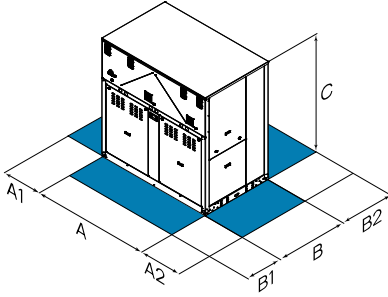
ACOUSTIC CONFIGURATION:

EN Super-silenced acoustic configuration (Standard)
BN Basic acoustic configuration

ENERGY RECOVERY:

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

Dimensions and connections



Size	WSHN-XSC3	70.4	75.4	80.4	85.4	90.4	100.4	110.4	120.4
A - Length	mm	2234	2234	2234	2234	2234	2234	2234	2234
B - Width	mm	1134	1134	1134	1134	1134	1134	1134	1460
C - Height	mm	2210	2210	2210	2210	2210	2210	2210	2210
A1	mm	500	500	500	500	500	500	500	500
A2	mm	500	500	500	500	500	500	500	500
B1	mm	800	800	800	800	800	800	800	800
B2	mm	1000	1000	1000	1000	1000	1000	1000	1000
EN Operating weight	kg	1242	1264	1322	1343	1406	1583	1651	1924

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

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.

EN Super-silenced (EN)

Technical data

Size	WSHN-XSC3	70.4	75.4	80.4	85.4	90.4	100.4	110.4	120.4
Cooling capacity (EN 14511:2022)	(1) kW	211	225	242	262	283	313	342	390
Total power input (EN 14511:2022)	(1) kW	48,5	52,6	55,5	61,1	65,5	71,6	79,1	88,0
EER (EN 14511:2022)	(1) -	4,35	4,28	4,36	4,29	4,33	4,37	4,32	4,44
SEER	(4) -	5,95	5,89	5,84	5,90	5,92	5,65	5,40	5,92
η_{sc}	(4) %	229,9	227,8	225,7	228,0	228,8	217,9	207,9	228,6
Heating capacity (EN 14511:2022)	(2) kW	243	259	278	301	327	358	393	445
Total power input (EN 14511:2022)	(2) kW	59,2	64,2	67,8	74,6	80,1	87,9	96,4	108
COP (EN 14511:2022)	(2) -	4,11	4,04	4,11	4,04	4,08	4,07	4,08	4,13
Refrigeration circuits	Nr	2							
No. of compressors	Nr	4							
Type of compressors	-	SCROLL							
Refrigerant	-	R-410A							
Water flow-rate (User side)	l/s	10,0	10,7	11,5	12,5	13,5	14,9	16,3	18,6
Water flow (Source side)	l/s	12,4	13,3	14,3	15,5	16,7	18,4	20,2	22,9
Standard power supply	V	400/3~/50							
EN Sound power level	(3) dB(A)	81	82	83	83	83	84	85	86
Directive ErP (Energy Related Products)									
SCOP - AVERAGE Climate - W35	(4) -	6,09	6,09	6,13	6,05	5,89	6,22	6,07	-
$\eta_{s,h}$	(4) %	241	241	242	239	233	246	240	-
SCOP - AVERAGE Climate - W55	(4) -	4,72	4,67	4,72	4,67	4,41	4,77	4,70	-
$\eta_{s,h}$	(4) %	181	179	181	179	168	183	180	-

(1) Performance data calculated in accordance with EN 14511:2022 referred to the following conditions: Internal exchanger water temperature = 12/7°C; External exchanger water temperature = 30/35°C

(2) Data calculated in compliance with Standard EN 14511:2022 referred to the following conditions: Internal exchanger water temperature = 40/45°C; External exchanger water temperature = 10/7°C

(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.

Sound power level are not Eurovent certified.

(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) and the Commission delegated Regulation (EU) No 2016/2281, also known as Ecodesign Lot21.

Accessories

AP	Rear water fittings	PSX	Mains power supply
SDV	Cutoff valve on compressor supply and return	IVFDT	Inverter driven variable flow-rate user side control depending on the temperature differential
MHP	High and low pressure gauges	IOTX	IoT industrial module for cloud based interoperability & services
MF2	Multi-function phase monitor	HYGU1	User side hydronic assembly with 1 ON/OFF pump
SFSTR	Disposal for inrush current reduction	HYGU2	User side hydronic assembly with 2 ON/OFF pumps
RCMRX	Remote control via microprocessor control	VARYU	VARYFLOW + (user side 2 inverter pumps)
ACIE	Antifreeze heater for internal exchanger protection	HYP2U	Hydropack user side with 2 pumps
EHCS	Source side antifreeze electric heaters	HYGS1	Source side hydronic assembly with 1 ON/OFF pump
CMSC10	Serial communication module for LonWorks supervisor	HYGS2	Source side hydronic assembly with 2 ON/OFF pumps
CMSC9	Serial communication module for Modbus supervisor	VARYS	VARYFLOW + (source side 2 inverter pumps)
CMSC11	Serial communication module for BACnet-IP supervisor	VS2M	Source side 2-way modulating valve
SCP4	Set-point compensation with 0-10 V signal	VS2MX	Source side 2-way modulating valve
SPC2	Set-point compensation with outdoor air temperature probe	VS3MX	Source side 3-way modulating valve
CSVX	Couple of manually operated shut-off valves	HYP2S	Hydropack source side with 2 pumps
IFWX	Steel mesh filter on the water side	V2MSP	Source side 2-way modulating valve for high DP
PFCP	Power factor correction capacitors (cosfi > 0.9)	V2MSPX	Source side 2-way modulating valve for high DP
AVIBX	Anti-vibration mount support	VACSUX	User side DHW switching valve
CONTA2	Energy meter		
RPRPDI	Refrigerant leak detector with pump down function in the casing		
ECS	ECOSHARE function for the automatic management of a group of units		

Accessories whose code ends with "X" are supplied separately