SPINCHILLER3

Water-cooled liquid chiller for indoor installation
Capacity from 217 to 394 kW

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

Cooling only | Heating only | Water cooled | Indoor installation | R-410A | Hermetic Scroll | Reversible water circuit | 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

✓3 operating modes: Cooling only, Heating only, Operation with water circuit change-over

✓Condenser water temperature with heat only version (OHO) up to 60°C, evaporator water temperature down to -8°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

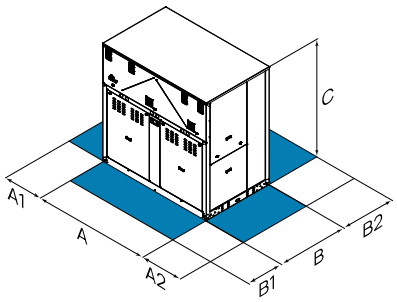
LOW TEMPERATURE:

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

FUNZIONAMENTO:

OCO	Cooling-only operation (Standard)
OHO	Heating-only operation
OHI	Operation with water circuit change-over

Dimensions and connections



Size	WSH-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	1132	1132	1132	1132	1132	1132	1132	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	1246	1268	1336	1356	1419	1692	1751	1935

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)

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

Technical data

Size	WSH-XSC3		70.4	75.4	80.4	85.4	90.4	100.4	110.4	120.4
Cooling capacity (EN 14511:2022)	(1)	kW	217	231	248	268	292	319	350	394
Total power input (EN 14511:2022)	(1)	kW	46,9	50,9	53,8	58,9	62,4	68,7	76	84,1
EER (EN 14511:2022)	(1)	-	4,63	4,55	4,61	4,54	4,67	4,65	4,61	4,69
SEER	(4)	-	6,16	6,24	6,18	6,06	6,01	5,73	5,65	5,91
$\eta_{s,c}$	(4)	%	238,6	241,7	239,1	234,3	232,4	221,3	217,9	228,2
Heating capacity (EN 14511:2022)	(2)	kW	245	262	281	304	330	360	395	451
Total power input (EN 14511:2022)	(2)	kW	58,1	62,9	66,5	73	78,7	85,5	94,2	106
COP (EN 14511:2022)	(2)	-	4,23	4,17	4,22	4,17	4,19	4,21	4,2	4,27
Refrigeration circuits		Nr	2							
No. of compressors		Nr	4							
Type of compressors		-	SCROLL							
Refrigerant		-	R-410A							
Water flow-rate (User side)		l/s	10,3	11,0	11,8	12,7	13,9	15,2	16,6	18,8
Water flow (Source side)		l/s	12,7	13,5	14,4	15,6	16,9	18,6	20,4	22,9
Standard power supply		V	400/3~/50							
EN Sound power level	(3)	dB(A)	81	82	83	83	83	84	85	86

(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 2016/2281, also known as Ecodesign Lot21.

Accessories

AP	Rear water fittings
SDV	Cutoff valve on compressor supply and return
MHP	High and low pressure gauges
MF2	Multi-function phase monitor
SFSTR	Disposal for inrush current reduction
RCMRX	Remote control via microprocessor control
ACIE	Antifreeze heater for internal exchanger protection
EHCS	Source side antifreeze electric heaters
CMSC10	Serial communication module for LonWorks supervisor
CMSC9	Serial communication module for Modbus supervisor
CMSC11	Serial communication module for BACnet-IP supervisor
SCP4	Set-point compensation with 0-10 V signal
SPC2	Set-point compensation with outdoor air temperature probe
CSVX	Couple of manually operated shut-off valves
IFWX	Steel mesh filter on the water side
PFCP	Power factor correction capacitors (cosfi > 0.9)
AVIBX	Anti-vibration mount support
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
PSX	Mains power supply
IVFDT	Inverter driven variable flow-rate user side control depending on the temperature differential
IOTX	IoT industrial module for cloud based interoperability & services
HYGC1	Cooling side hydronic assembly with 1 ON/OFF pump
HYGC2	Cooling side hydronic assembly with 2 ON/OFF pumps
VS2MC	Cooling side 2-way modulating valve
VS2MCX	Cooling side 2-way modulating valve
VS3MCX	Cooling side 3-way modulating valve
VARYC	VARYFLOW + (cooling side 2 inverter pumps)
2PMC	Hydropack cooling side with 2 pumps
V2MCP	Cooling side 2-way modulating valve for high DP
V2MCPX	Cooling side 2-way modulating valve for high DP
HYGH1	Heating side hydronic assembly with 1 ON/OFF pump
HYGH2	Heating side hydronic assembly with 2 ON/OFF pumps
VARYH	VARYFLOW + (heating side 2 inverter pumps)
VS2MH	Heating side 2-way modulating valve
VS2MHX	Heating side 2-way modulating valve
VS3MHX	Heating side 3-way modulating valve
2PMH	Hydropack heating side with 2 pumps
V2MHP	Heating side 2-way modulating valve for high DP
V2MHPX	Heating side 2-way modulating valve for high DP

Accessories whose code ends with "X" are supplied separately

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