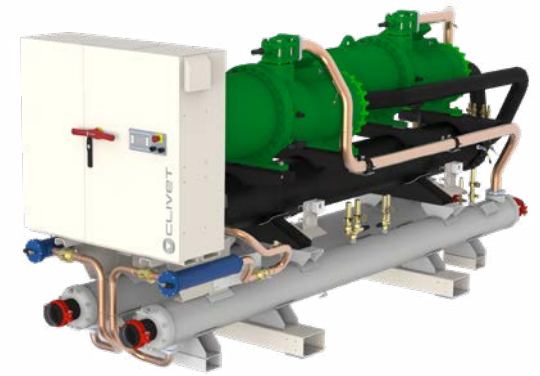
SCREWLINE4

Water-cooled liquid chiller for indoor installation
Capacity from 572 to 1499 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-134a | Semi-hermetic Twin-screw | Reversible water circuit | Electronic expansion valve | Intelliplant | ErP compliant

- ✓Double independent circuits for high reliability with screw compressors
- ✓First investment driven and refurbishment applications
- ✓Refrigerant R134a - GWP = 1430
- ✓3 operating modes: Cooling only, Heating only, Operation with water circuit change-over
- ✓Two acoustic configurations: standard and super-silenced
- ✓Modular operation management, up to 7 units in cascade
- ✓Integrated partial and total recovery
- ✓Condenser water temperature up to 65°C with heating only version (OHO), evaporator water temperature down to -8°C

Versions and configurations

VERSION:

EXC	Excellence (Standard)

LOW TEMPERATURE:

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

OPERATION:

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

CONFIGURAZIONE ACUSTICA:

ST	Standard acoustic configuration (Standard)
EN	Supersilenced acoustic configuration

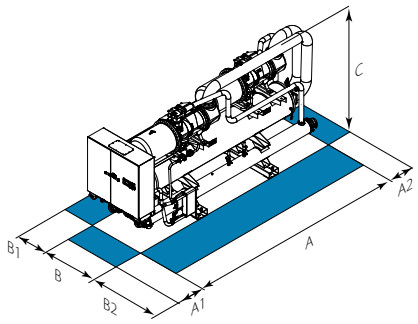
RECUPERO ENERGETICO:

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

VERSIONE ALTA TEMPERATURA ACQUA:

HWT	High water temperature

Dimensions and connections



Size ▸▸ WDH-SB4		220.2	240.2	280.2	320.2	360.2	440.2	500.2	540.2	580.2
A - Length	mm	4766	4766	4766	4785	4785	5028	5147	5147	5147
B - Width	mm	1408	1408	1408	1408	1408	1408	1408	1408	1408
C - Height	mm	2033	2033	2033	2183	2183	2182	2308	2308	2308
A1	mm	1470	1470	1470	1470	1470	1470	1470	1470	1470
A2	mm	700	700	700	700	700	700	700	700	700
B1	mm	1000	1000	1000	1000	1000	1000	1000	1000	1000
B2	mm	1000	1000	1000	1000	1000	1000	1000	1000	1000
Operating weight	mm	4099	4119	4156	5854	5874	6004	6453	6681	6761

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 blue areas.

Technical data

Size		WDH-SB4	220.2	240.2	280.2	320.2	360.2	440.2	500.2	540.2	580.2
Cooling capacity (EN 14511:2022)	(1)	kW	572	613	706	867	978	1124	1299	1369	1499
Total power input (EN 14511:2022)	(1)	kW	109	120	138	164	188	213	244	273	304
EER (EN 14511:2022)	(1)	-	5,25	5,11	5,11	5,27	5,20	5,29	5,32	5,02	4,93
SEER	(4)	-	6,43	6,53	6,52	6,47	6,38	6,43	6,44	6,38	6,38
$\eta_{s,c}$	(4)	%	254,3	258,2	257,8	255,9	252,3	254,4	254,5	252,3	252,3
Heating capacity (EN 14511:2022)	(2)	kW	716	768	939	1033	1179	1454	1592	1740	1858
Total power input (EN 14511:2022)	(2)	kW	144	155	189	206	237	293	322	351	379
COP (EN 14511:2022)	(2)	-	4,97	4,95	4,97	5,00	4,97	4,96	4,94	4,96	4,90
Refrigeration circuits		Nr					2				
No. of compressors		Nr					2				
Type of compressors		-					SCREW				
Refrigerant		-					R-134a				
Water flow-rate (User side)		l/s	27,2	29,2	33,6	41,2	46,5	53,4	61,7	65,1	71,2
Water flow (Source side)		l/s	32,7	35,1	40,4	49,4	55,9	64,0	73,9	78,7	86,3
Standard power supply		V					400/3~/50				
ST Sound power level	(3)	dB(A)	99	100	100	101	101	103	103	105	105
EN Sound power level	(3)	dB(A)	95	96	96	98	98	100	100	101	101

(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) HWT Version: Performance data calculated in accordance with 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

SPC1	Set point compensation with 4-20 mA signal
SCP4	Set-point compensation with 0-10 V signal
SPC2	Set-point compensation with outdoor air temperature probe
IVMSX	Source side 2-way modulating valve
CONTA2	Energy meter
IFWX	Steel mesh filter on the water side
AMRX	Rubber antivibration mounts
RCMRX	Remote control via microprocessor control
PSX	Mains power supply
SFSTR2	Progressive compressor start-up device
PFCP	Power factor correction capacitors (cosfi > 0.9)
CMSC9	Serial communication module for Modbus supervisor
CMSC10	Serial communication module for LonWorks supervisor
CMSC11	Serial communication module for BACnet-IP supervisor
RPR	Refrigerant leak detector
ECS	ECOSHARE function for the automatic management of a group of units
CBS	Overload circuit breakers
RDVS	Switching valve with double safety valves
MHP	High and low pressure gauges
CO2P	2 pass condenser
IOTX	IoT industrial module for cloud based interoperability & services

Accessories whose code ends with "X" are supplied separately

Valid from: January 2026 - REF. DG26A003GB-00