

SRH

0401 - 2404

UNIT DESCRIPTION

This series of chillers, with condensation by cooling tower or well water, equipped with multiple semi-hermetic screw compressors, are suitable for use in medium/large size air conditioning or process cooling. This series works with **refrigerant R407c**. This is a refrigerant fluid which ensures certain advantages from the ecological point of view as it does not contain chlorine and has a very low O.D.P. value. Especially noteworthy is the possibility, in models with heat recovery, of having hot water during operation as chiller. They are particularly compact units with all their components easily accessible. They are built for indoor application.

STANDARD UNIT COMPOSITION

- Supporting structure made of galvanized epoxy powder coated steel with high thickness.
- Semi-hermetic screw compressors.
- Thermally insulated shell and tube type evaporator.
- Shell and tube type condenser, accessible for inspection. (In the SRHH version the condenser is thermally insulated).
- Thermally insulated shell and tube type desuperheater (SRHD).
- Thermally insulated double shell and tube type condenser (SRHR).
- Expansion valves. Dryer filters. Sight glass. Liquid line solenoid valves.
- Electrical power and control panel complying with EN 60204-1/IEC 204-1 standards and interlock door mains isolator.
- Microprocessor control system.
- Non-freezing oil charge and refrigerant charge.
- General testing and operational test carried out in the factory in accordance with European Standard EN 12055.

MODELS

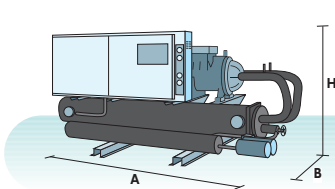
- SRH** This range of units features cooling only.
- SRHH** Water to water heat pump with reverse cycle on the water circuit.
- SRHD** Water cooled liquid chillers with partial heat recovery.
- SRHR** Water cooled liquid chillers with total heat recovery.



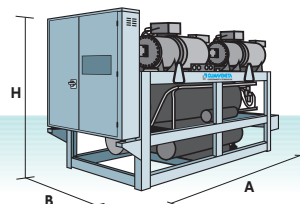
GENERAL TECHNICAL DATA

R407c
SOLUBLE

MODELS		0401	0501	0601	0802	1002	1202	1303	1503	1803	2004	2404
SRH / SRHH / SRHR												
Cooling capacity	① kW	122	146	181	241	300	357	397	454	541	613	731
Power input	① kW	31	39	48	62	80	96	102	120	144	160	193
Heating capacity	① kW	152	183	227	300	375	447	493	567	677	763	913
SRHH / SRHR												
Cooling capacity	② kW	111	131	163	218	269	321	357	407	487	549	657
Power input	② kW	39	49	59	78	98	118	127	147	178	197	238
Heating capacity	② kW	147	177	219	291	361	433	476	546	654	734	881
SRHD												
Cooling capacity	③ kW	127	151	188	250	311	370	411	471	561	636	758
Power input	③ kW	30	38	47	60	77	93	99	115	139	154	187
Heating capacity	③ kW	26	33	40	52	66	80	85	99	120	133	160
OPERATING WEIGHT												
SRH / SRHH	Kg.	875	990	1040	1625	1865	1945	3020	3355	3415	4330	4520
SRHD	Kg.	1005	1050	1200	2440	2650	2710	3260	3510	3665	4670	4855
SRHR	Kg.	1060	1105	1250	2480	2745	2880	3500	3785	3990	5065	5325
DIMENSIONS												
SRH/H	A	④ mm	2100	2100	2020	2950	2950	2950	3660	3660	3660	3600
SRHR	A	④ mm	2500	2500	2500	2950	2950	2950	3660	3660	3660	3660
SRHD	A	④ mm	2100	2100	2020	2950	2950	2950	3660	3660	3660	3660
SRH/H	B	④ mm	830	830	830	1100	1100	1100	1200	1200	1450	1450
SRHR	B	④ mm	830	830	830	1100	1100	1100	1200	1200	1600	1600
SRHD	B	④ mm	830	830	830	1100	1100	1100	1200	1200	1450	1450
SRH/H	H	mm	1325	1325	1325	1380	1380	1380	1950	1950	1950	1950
SRHR	H	mm	1450	1450	1450	1380	1380	1380	2050	2050	2050	2050
SRHD	H	mm	1490	1490	1490	1490	1455	1455	2050	2050	2050	2050



SRH/H/R/D 0401 - 1202



SRH/H/R/D 1303 - 2404

① Data referred to:	Chilled water	12/7 °C	④ Free areas required:	Condensing coil	side minimum	450 mm
	Condenser water	30/35 °C		Water connection	condenser side	900/2200 mm
② Data referred to:	Chilled water	12/7 °C	④ Free areas required:	Water connection	condenser side	900/2200 mm
	Hot water (recovery)	40/45 °C		Opposite side to condens	water connection	600 mm
③ Data referred to:	Chilled water	12/7 °C	④ Free areas required:	Electrical panel side	650 mm	
	Hot water					
	(desuperheater)	40/45 °C				
	Condenser water	30/35 °C				

MAIN FUNCTIONS OF THE CVM CONTROLS

	20	300	3000	3000	300	20	
Voltage and frequency supply control	-	•	•	•	•	•	Compressor start per hour and restarting time control
Missing external condens led signal	•	•	•	•	•	•	Compressor working-hours control and display
Remote on/off by external volt-free contact	•	•	•	•	•	•	Compressor working hours balance system
Cumulative fault warning alarm	•	•	•	•	•	•	Pump-down when stopped
Evaporator inlet/outlet water temperature display	•	•	•	•	•	•	Led display of interface board correct operation
Recuperator inlet/outlet water temperature display	-	•	▲	•	•	•	Auto-diagnostic of the electrical part
Compressor/circuit failure signal	•	•	•	•	Par.	Par.	CVM-Master connection
Unit general-alarm signal	•	•	•	•	Par.	Par.	CVM-Interface connection
Print-out of the temperature and pressure values (if any)	•	•	•	•	Par.	-	Supervising software connection
Configuration parameters print-out	•	•	•	•	Opt.	Opt.	Landis Staefa communication gateway
Historical alarms and events memory and print-out	25	200	200	•	Par.	Par.	Johnson Controls communication gateway
Propor. regulating algorithm on the inlet water temp.	•	•	•	•	•	-	Communication protocol
Proportional+Integral regulating algorithm	Par.	Par.	Par.	•	•	-	
Compressors start sequence at unit start-up	-	Par.	Par.	•	•	-	
Real-time internal clock	-	-	•	•	•	-	
Programmable timer function	-	-	Par.	•	•	-	
Double-set mode connected to programmable timer	-	-	Par.	•	•	-	
Delayed compressor start	•	•	•	•	•	-	

SRH / D / R 0401 - 1202 with CVM 20; SRHH 0401 - 1202 with CVM 300
SRH / D / R / H 1303 - 2404 with CVM 3000
 •: standard
 -: not available
 ▲: only for SRHH
 Opt: available upon request
 Par.: available modifying a value of the configuration parameters

CLIMAVENETA

Fläkt Woods AS tlf. 63 81 14 00 Lillestrøm Stavanger Bergen Trondheim Tromsø