Precision Air Conditioning System

SL Series

JECKCO

Made in Italy

Sole Distributor:

Tralaco Technology Limited

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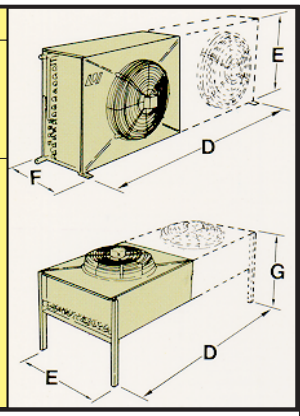
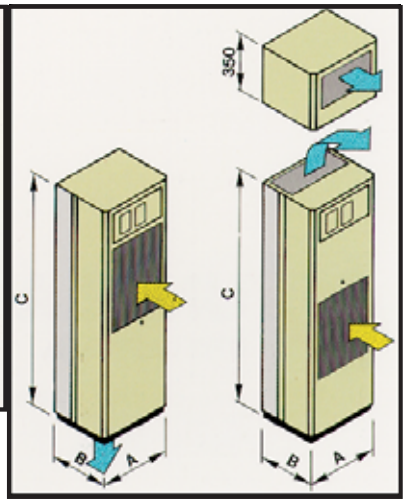
MODEL			AIR COOLED SYSTEM					
Downflow configuration			SAD100	SAD200	SAD300	SAD400	SAD500	SAD600
Upflow configuration			SAU100	SAU200	SAU300	SAU400	SAU500	SAU600
SUPPLY VOLTAGE			220V / 1phase		380V / 3phase + N			
AIR VOLUME (adjustable)	Max	1/s	550	550	1050	1050	1750	1750
		m^3/h	1980	1980	3780	3780	6300	6300
	Min	1/s	410	410	780	780	1310	1310
		m^3/h	1260	1260	2410	2410	4030	4030
COOLING CAPACITY								
AMBIENT AT 24 ℃ - 50% RH Total/Sensible	Max	kw	7.1/6.1	10.2/8.8	12.6/10.8	16.2/13.9	20.6/17.7	24.1/20.7
Total/Sensible	Min	kW	6.6/5.7	9.5/8.2	11.7/10.1	15.1/12.9	19.2/16.5	22.4/19.3
AMBIENT AT 26℃ - 50% RH Totale/Sensible	Max	kW	7.5/6.5	10.8/9.3	13.4/11.5	17.2/14.7	21.8/18.8	25.5/21.9
Totale/Sensible	Min	kW	7.0/6.0	10.1/8.7	12.5/10.7	16.0/13.8	20.4/17.5	23.6/20.5
COMPRESSOR NOMINAL POWER		kW	2.1	3.0	3.7	4.7	5.9	6.9
ELECTRIC REHEAT CAPACITY		kW	2.3	2.3	3.6	3.6	6.8	6.8
HUMIDIFIER		kW	1.6	1.6	2.4	2.4	2.4	2.4
		kg/h	2.1	2.1	3.1	3.1	3.1	3.1
AIRCOOLED CONDENSER MODEL			CND10	CND20	CND30	CND40	CND50	CND60
DIMENSIONS								
Dimension A		mm	560		860		1210	
Dimension B		mm	460		460		460	
Dimension C		mm	1750		1750		1750	
WEIGHT		kg	150	160	180	230	260	290
CONNECTIONS								
Discharge line		ϕ mm	16				16	
Liquid line		ϕ mm	12				16	
Condensate Drain		ϕ mm	21				21	
Humidifier Feed		ϕ mm	6				6	
			Condensing Temperature = 48℃.					

MODEL		CND10	CND20	CND30	CND40	CND50	CND60
Number of Fans		1	1	2	2	2	3
Operating Current	A	1 x 0.5	1 x 0.5	2 x 0.5	2 x 0.5	2 x 0.5	3 x 0.5
Dimension D	mm	830	830	1180	1180	1180	1780
Dimension E	mm	700	700	700	700	950	990
Dimension F	mm	350	350	350	350	350	350
Dimension G	mm	700	700	700	700	700	700
Weight	kg	23	30	40	50	65	90
Gas Line	ϕ mm	22 x 18	22 x 18	22 x 18	22 x 18	22 x 18	22 x 18
Liquid Line	ϕ mm	18 x 16	18 x 16	18 x 16	18 x 16	18 x 16	18 x 16





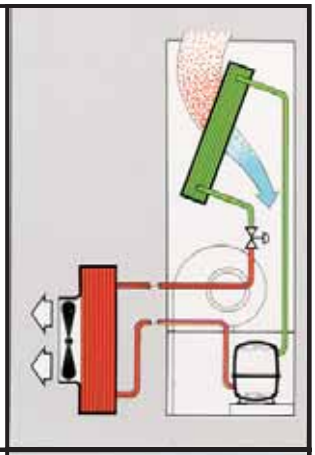
MODEL		WATER COOLED SYSTEM					
Downflow configuration		SWD100	SWD200	SWD300	SWD400	SWD500	SWD600
Upflow configuration		SWU100	SWU200	SWU300	SWU400	SWU500	SWU600
SUPPLY VOLTAGE		220V / 1phase		380V / 3phase + N			
AIR VOLUME Max	1/s	550	550	1050	1050	1750	1750
(adjustable)	m^3/h	1980	1980	3780	3780	6300	6300
Min	1/s	410	410	780	780	1310	1310
	m^3/h	1260	1260	2410	2410	4030	4030
COOLING CAPACITY							
AMBIENT AT 24 ℃ - 50% RH							
Total/Sensible Max	kw	7.1/6.1	10.2/8.8	12.6/10.8	16.2/13.9	20.6/17.7	24.1/20.7
Total/Sensible Min	kW	6.6/5.7	9.5/8.2	11.7/10.1	15.1/12.9	19.2/16.5	22.4/19.3
AMBIENT AT 26℃ - 50% RH							
Totale/Sensible Max	kW	7.5/6.5	10.8/9.3	13.4/11.5	17.2/14.7	21.8/18.8	25.5/21.9
Totale/Sensible Min	kW	7.0/6.0	10.1/8.7	12.5/10.7	16.0/13.8	20.4/17.5	23.6/20.5
COMPRESSOR NOMINAL POWER	kW	2.1	3.0	3.7	4.7	5.9	6.9
ELECTRIC REHEAT CAPACITY	kW	2.3	2.3	3.6	3.6	6.8	6.8
HUMIDIFIER	kW	1.6	1.6	2.4	2.4	2.4	2.4
	kg/h	2.1	2.1	3.1	3.1	3.1	3.1
DIMENSIONS							
Dimension A	mm	560		860		1210	
Dimension B	mm	460		460		460	
Dimension C	mm	1750		1750		1750	
WEIGHT	kg	160	170	190	240	270	300
CONNECTIONS							
Water connections	NPT	1/2"		3/4"		1"	
Condensate Drain	ϕ mm	21		21		21	
Humidifier Feed	ϕ mm	6		6		6	
		Condensing Temperature = 40℃ Water Temperature = 26℃.					

MODEL		CHILLED WATER COOLED SYSTEM					
Downflow configuration		SCD100	SCD200	SCD300	SCD400	SCD500	SCD600
Upflow configuration		SCU100	SCU200	SCU300	SCU400	SCU500	SCU600
SUPPLY VOLTAGE		220V / 1phase		380V / 3phase + N			
AIR VOLUME Max	1/s	550	550	1050	1050	1750	1750
(adjustable)	m^3/h	1980	1980	3780	3780	6300	6300
Min	1/s	410	410	780	780	1310	1310
	m^3/h	1260	1260	2410	2410	4030	4030
COOLING CAPACITY							
AMBIENT AT 24 ℃ - 50% RH							
Total/Sensible Max	kw	7.1/6.1	10.2/8.8	12.6/10.8	16.2/13.9	20.6/17.7	24.1/20.7
Total/Sensible Min	kW	6.6/5.7	9.5/8.2	11.7/10.1	15.1/12.9	19.2/16.5	22.4/19.3
AMBIENT AT 26℃ - 50% RH							
Totale/Sensible Max	kW	7.5/6.5	10.8/9.3	13.4/11.5	17.2/14.7	21.8/18.8	25.5/21.9
Totale/Sensible Min	kW	7.0/6.0	10.1/8.7	12.5/10.7	16.0/13.8	20.4/17.5	23.6/20.5
ELECTRIC REHEAT CAPACITY	kW	2.3	2.3	3.6	3.6	6.8	6.8
HUMIDIFIER	kW	1.6	1.6	2.4	2.4	2.4	2.4
	kg/h	2.1	2.1	3.1	3.1	3.1	3.1
DIMENSIONS							
Dimension A	mm	560		860		1210	
Dimension B	mm	460		460		460	
Dimension C	mm	1750		1750		1756	
WEIGHT	kg	110	120	160	180	230	250
CONNECTIONS							
Chilled water line	NPT	1/2"		3/4"		1"	
Condensate Drain	ϕ mm	21		21		21	
Humidifier Feed	ϕ mm	6		6		6	
		Chilled water Temperature at 7 ~ 12℃.					

DIRECT EXPANSION AIR-COOLED

In these units the heat extracted from the space is rejected to atmosphere through the externally mounted air-cooled condenser of the refrigerant circuit. The air conditioning unit and its air-cooled condensers represent autonomous sealed circuits, highly cost-effective and reliable.

JECKCO air-cooled condensers, with their all-aluminium casings, built-in condensing pressure control and speed-controllable fans, are extremely corrosion-resistant and suitable for location in almost any environment.

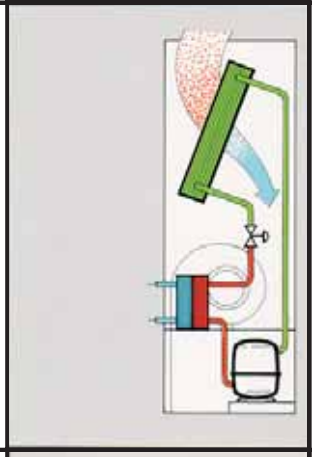


DIRECT EXPANSION WATER-COOLED

In these systems the heat extracted from the space is rejected to a supply of cooling water flowing through condensers built into the air conditioning units. The cooling water supply may be provided by a cooling tower system or, if available, a ground water source.

As the condensers are located within the air conditioning unit, these systems require only a modest refrigerant charge and are factory charged and tested.

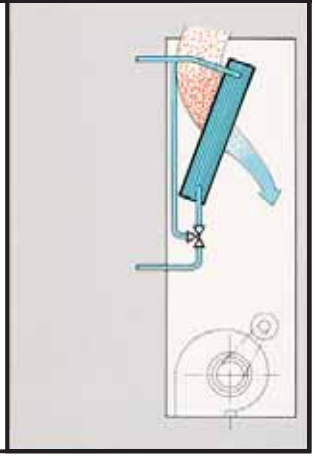
JECKCO water-cooled condensers are of a brazed stainless steel construction for maximum resistance to corrosion, and can be fitted with pressure controlled water regulating valves to minimise cooling water consumption.

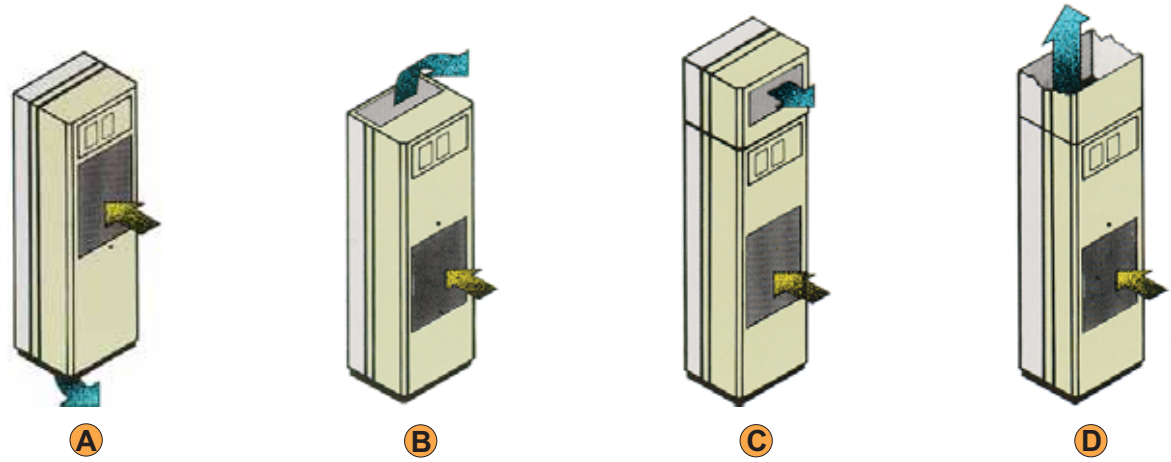


CHILLED WATER UNITS

These units are simpler than the direct expansion type and require an external source of chilled water in order to carry out their cooling function.

A cooling coil of large surface area ensures very efficient operation, while the built-in 3-way valve modulates the flow of chilled water through the coil to provide extremely precise control of the room conditions.





The range includes both air and water-cooled direct expansion version as well as a series of chilled water models, to meet the needs of every application.
Conditioned air can be discharge downward (A) with front return, for supplying conditioned air via the cavity beneath a raised floor. There are also available in a upflow version (B) or forward (c) via an adjustable top discharge grille or it can be ducted from the unit (D) if the option of 150 Pa discharge pressure fans is specified with front return.

The microprocessor control system with its continuous read-out of the room conditions, monitoring and self diagnostic functions and warning of any malfunctions, is already equipped for remote control and full signalling as well as the possibility of serial connection to a computerised building management and/or telemaintenance system.

PRINCIPAL ACCESSORIES AVAILABLE

- Electric reheat
- Electrode boiler humidifier
- Low pressure hot water heating
- Fresh air module complete with filter
- High efficiency filter
- High pressure fans for ducting
- Modulating head pressure control (for air-cooled units)
- Air discharge plenum with adjustable front face grille (for upflow units)
- ASM2 board for data transmission

It is our belief that air conditioning means more than just air cooling.

With the ***SL*** range we have brought true air conditioning within the scope and the budget of the smallest applications. Air conditioning that is discrete, reliable, efficient and smart, in more ways than one. But these are just come of the qualities of the new ***SL*** range from ***JECKCO***.

The tall, slim design with the tiny footprint and the fact that all internal components are accessible from the front, permit the greatest possible freedom in finding a location for the unit: in a corner, between furniture or even built in to partition storage systems.

The speed control of the quiet-running fans means that the cooling performance and the noise level of the unit can be tailored to the application.

The ***SL*** is ideal for:

- a medium-sized cellular office open plan offices
- branches of banks, building societies, insurance companies
- dealing rooms
- boardrooms, conference rooms,
- restaurants, bars, clubs
- reception halls, waiting rooms
- museums.

As a true air conditioner, ***SL*** does more than simply cool the air.

The built in microprocessor provides extremely precise control of temperature, and with the option of an electrode boiler humidifier comes a second microprocessor to provide equally accurate control of room humidity level.

With the additional option of high efficiency filtration and the capability of adjusting the sensible cooling ratio by means of the fan speed control, the ***SL*** is clearly the ideal solution for more demanding applications such as:

- computer rooms
- telephone exchanges
- control rooms
- metrological rooms
- laboratories
- climate controlled storage areas.