

**Condensing unit**  
 Cooling only  
 Air cooled  
 Outdoor installation  
**Capacity from 210 to 588 kW**

## SPINchiller



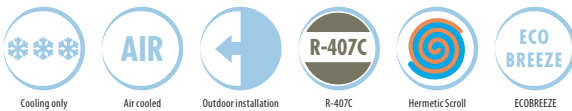
The **SPINchiller** series presents a new concept of condensing unit offering:

- ▶ **EFFICIENCY** that increases as the heating load decreases, while guaranteeing maximum requested load when necessary. SPINchiller always ensures maximum comfort with very high efficiency and consequently considerable energy savings;
- ▶ **customisation** of the unit with the **ECOBreeze** accessory, which enhances the qualities of flexibility and energy efficiency;
- ▶ **easy connection** to the service system plus a simple control system and easy maintenance drastically reduce work requiring specialised personnel with consequent reduction in installation costs;
- ▶ **customisation of the unit**, also for special requirements both in the civil and technological air-conditioning sphere, thanks to the many available optional accessories.

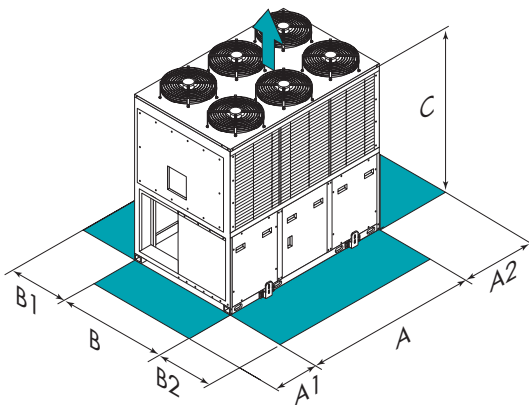
The innovative and hi-tech features of SPINchiller give this series a much higher quality than can generally be found on the market today.

**MSAT-SC** is a condensing unit series for use together with a remote evaporating section.

### functions and features



### dimensions and clearances



Size – MSAT-SC		65D	70D	75D	80D	90D	100D	110D	120D	135F	150F	165F	180F
A - Length	mm	2950	2950	2950	2950	2950	2950	4250	4250	4250	4250	4250	4250
B - Width	mm	2195	2195	2195	2195	2195	2195	2195	2195	2195	2195	2195	2195
C - Height	mm	2410	2410	2410	2410	2410	2410	2410	2410	2410	2410	2410	2410
A1	mm	700	700	700	700	700	700	700	700	700	700	700	700
A2	mm	700	700	700	700	700	700	700	700	700	700	700	700
B1	mm	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300
B2	mm	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
SC	Operating weight	kg	2102	2164	2226	2288	2293	2298	2805	2983	3113	3200	3508
EN	Operating weight	kg	2112	2184	2246	2308	2313	2318	2825	3008	3203	3300	3598

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.  
 SC Compressors soundproofing (SC)  
 EN Super-silenced (EN)

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

## versions and configurations

### ENERGY RECOVERY:

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

### ACOUSTIC CONFIGURATION:

- ▶ **SC** Acoustic configuration with compressor soundproofing (Standard)
- ▶ **EN** Extremely low noise acoustic configuration

### EXTERNAL SECTION FAN CONSUMPTION REDUCTION:

- ▶ **CREFP** Device for consumption reduction of the external section at variable speed (phase-cutting) (Standard)
- ▶ **CREFB** Device for consumption reduction of the external section ECOBREEZE fans

## technical data

Size – MSAT-SC			65D	70D	75D	80D	90D	100D	110D	120D	135F	150F	165F	180F
▶ Cooling capacity	(1)	kW	210	226	240	255	278	318	364	386	429	462	518	588
Compressor power input		kW	56,5	61,2	67,6	73,9	81,2	88,5	99,5	114	124	140	157	172
Total power input	(2)	kW	64,8	69,5	75,9	82,2	89,5	96,8	112	126	138	156	179	193
EER		-	3,25	3,25	3,17	3,10	3,10	3,29	3,25	3,06	3,10	2,95	2,90	3,04
Refrigeration circuits		Nr	2	2	2	2	2	2	2	2	2	2	2	2
No. of compressors		Nr	4	4	4	4	4	4	4	4	6	6	6	6
Type of compressors		-	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL
Standard power supply		V	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Sound pressure level	(3)	dB(A)	76	76	76	76	76	76	78	78	78	78	79	79

### Notes

- (1) Data referred to the following conditions: Saturated suction temperature (SST) = 9.5 °C (Dew Point); Outdoor air temperature 35°C
- (2) Total absorbed power is given by the compressor absorbed power + fan absorbed power + auxiliary circuit absorbed power.
- (3) Measures according to UNI EN ISO 9614-2 regulations, with respect to the EUROVENT 8/1 certification. The sound levels refer to the unit at full load, in the rated test conditions. The sound pressure level refers to a distance of 1m from the external surface of the units operating in an open field. Data referred to the following conditions: Saturated suction temperature (SST) = 9.5 °C (Dew Point); Outdoor air temperature 35°C

## accessories

- ▶ **CCCA** Copper / aluminium condenser coil with acrylic lining
- ▶ **CCCA1** Condenser coil with Energy Guard DCC Aluminium
- ▶ **AMMX** Spring antivibration mounts
- ▶ **PGCC** Finned coil protection grilles and compressor compartment
- ▶ **PGCCH** Anti-hail protection grilles
- ▶ **PM** Phase monitor
- ▶ **RCMRX** Remote control via microprocessor control
- ▶ **CMSC6** CAN/LON WORKS serial converter kit
- ▶ **CMSC4** CAN/Modbus serial converter kit
- ▶ **CFSC** Potential-free contacts for compressor status
- ▶ **PFCP** Power factor correction capacitors (cosfi > 0.9)
- ▶ **KCX** Connection set
- ▶ **LR** Liquid receiver
- ▶ **SLS** Inlet separator

### Key to symbols and notes

- Accessories separately supplied

For compatibility between the various accessories, please refer to the dedicated Technical Bulletin or our website in the Systems and Products section.