

# CSRT-XHE2 CSRN-XHE2

49.4÷110.4

## CLIVETPack<sup>2</sup>

### Packaged air-conditioning unit

CSRT-XHE2: cooling only

CSRN-XHE2: heat pump

Air cooled

Roof Top

Capacity from 155 to 376 kW



ErP  
compliant

**CSRT-XHE2 and CSRN-XHE2** are Rooftop designed for the air-conditioning of medium-sized and large surfaces with average crowding levels, such as supermarkets, commercial areas, manufacturing areas, railway stations and airports. The entire range is designed for maximum seasonal efficiency, with particular attention to the situations at partial load, thanks to the double cooling circuit with tandem scroll compressors, electronically controlled fans with brushless motors, large heat exchange surfaces, microprocessor control with dedicated control.

■ **VERSATILITY OF USE:** wide range of versions and options make the unit extremely flexible and suitable for the most different project situations

■ **EASY TO POSITION AND INSTALL:** the units are exceptionally compact, allow bottom or horizontal supply and return air.

## functions and features



Cooling only  
(CSRT-XHE2)



Heat pump  
(CSRN-XHE2)



Air cooled



Outdoor  
installation



R-410A



Hermetic  
Scroll



Ice  
protection  
system



FREE-  
COOLING



THOR  
(Thermodynamic  
Overboost  
Recovery)



ECOBREEZE



Electronically  
commutated  
Plug Fan



Electronic  
expansion  
valve

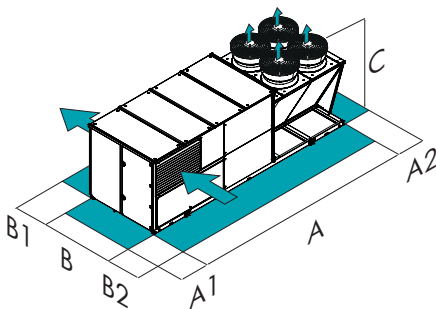


Constant Air  
Volume



Variable Air  
Volume

## dimensions and clearances



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

SIZE – CSRT-XHE2			49.4	54.4	60.4	70.4	80.4	90.4	100.4	110.4
CAK	A - Length	mm	5250	5250	6670	6670	6670	8510	8510	8510
CAK	B - Width	mm	2326	2326	2326	2326	2326	2326	2326	2326
CAK	C - Height	mm	2410	2410	2410	2410	2410	2410	2410	2410
CAK	A1	mm	1500	1500	1500	1500	1500	1500	1500	1500
CAK	A2	mm	1500	1500	1500	1500	1500	1500	1500	1500
CAK	B1	mm	1500	1500	1500	1500	1500	1500	1500	1500
CAK	B2	mm	1500	1500	1500	1500	1500	1500	1500	1500
CBK	Operating weight	kg	2102	2418	2573	2765	3181	3283	3528	4059
CAK	Operating weight	kg	2102	2418	2573	2765	3181	3283	3528	4059
CCKP	Operating weight	kg	2313	2630	2851	3043	3460	3637	3882	4414
SIZE – CSRN-XHE2			49.4	54.4	60.4	70.4	80.4	90.4	100.4	110.4
CAK	A - Length	mm	5250	5250	6670	6670	6670	8510	8510	8510
CAK	B - Width	mm	2326	2326	2326	2326	2326	2326	2326	2326
CAK	C - Height	mm	2410	2410	2410	2410	2410	2410	2410	2410
CAK	A1	mm	1500	1500	1500	1500	1500	1500	1500	1500
CAK	A2	mm	1500	1500	1500	1500	1500	1500	1500	1500
CAK	B1	mm	1500	1500	1500	1500	1500	1500	1500	1500
CAK	B2	mm	1500	1500	1500	1500	1500	1500	1500	1500
CBK	Operating weight	kg	2189	2512	2688	2880	3305	3430	3674	4217
CAK	Operating weight	kg	2189	2512	2688	2880	3305	3430	3674	4217
CCK	Operating weight	kg	2304	2628	2839	3031	3457	3622	3867	4411
CCKP	Operating weight	kg	2400	2724	2966	3158	3583	3784	4029	4571

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.

- CAK Configuration with single fan section for full recirculation
- CBK Configuration with single fan section for recirculation and fresh air
- CCKP Configuration with double fan section with fresh air and THOR thermodynamic recovery
- CCK Configuration with double fan section for recirculation, fresh and exhaust air



## accessories

<b>THR</b>	Exhaust air THOR thermodynamic energy recovery (CCKP version)		
<b>REC</b>	Exhaust air thermodynamic energy recovery (CCK version)		
<b>FC</b>	Thermal FREE-COOLING		
<b>FCE</b>	Enthalpy FREE-COOLING		
<b>M3</b>	Downward air supply		
<b>M5</b>	Upflow air supply		
<b>R3</b>	Downward air return		
<b>SER</b>	Outdoor air damper manually set		
<b>SERM</b>	Outdoor air motorized on/off damper		
<b>SFCM</b>	Modulating motorized FREE-COOLING damper		
<b>SFCEM</b>	Modulating motorized FREE-COOLING damper and min. outdoor air motorized on-off damper		
<b>PVAR</b>	Variable airflow		
<b>PCOSM</b>	Constant supply airflow		
<b>PAQC</b>	SAir quality probe for CO2 rate check		
<b>PAQCV</b>	Air quality sensor for CO2 and VOC rate check		
<b>CREFB</b>	Device for fan consumption reduction of the external section, ECOBREEZE type1		
<b>VENH</b>	High static pressure fans		
<b>F7</b>	High efficiency F7 air filter		
<b>FES</b>	Electronic filters		
<b>PSAF</b>	Differential pressure switch for dirty air filters		
<b>EH20</b>	24 kW electric heaters		
<b>EH24</b>	36 kW electric heaters		
<b>EH28</b>	48 kW electric heaters		
<b>CHW2</b>	Two-rows hot water coil		
<b>CHWER</b>	Energy recovery from food refrigeration		
<b>3WVM</b>	Modulating three-way valve		
<b>2WVM</b>	Modulating 2-way valve		
✓ <b>GC09X</b>	Condensing gas heating module with modulating control 65kW (sizes 49.4÷54.4)		
✓ <b>GC12X</b>	Condensing gas heating module with modulating control 130kW (sizes 49.4÷54.4, 90.4÷110.4)		
✓ <b>GC10X</b>	Condensing gas heating module with modulating control 82kW (sizes 49.4÷80.4)		
✓ <b>GC13X</b>	Condensing gas heating module with modulating control 164kW (sizes 60.4÷110.4)		
✓ <b>GC11X</b>	Condensing gas heating module with modulating control 100kW (sizes 49.4÷80.4)		
✓ <b>GC06X</b>	Condensing gas heating module with modulating control 200kW (sizes 60.4÷110.4)		
✓ <b>GC07X</b>	Condensing gas heating module with modulating control 300kW (sizes 90.4÷110.4)		
<b>LTEMP1</b>	Application for low outdoor temperature		
<b>CPHG</b>	Hot gas re-heating coil		
<b>HES8</b>	8 kg/h immersed electrodes steam humidifier		
<b>HES9</b>	15 kg/h immersed electrodes steam humidifier		
<b>HWS</b>	Water to waste evaporating wet-deck humidifier		
<b>MHP</b>	High and low pressure gauges		
<b>MOB</b>	Serial port RS485 with Modbus protocol		
<b>LON</b>	Serial port RS485 with LonWorks protocol		
<b>BACIP</b>	BACnet-IP serial communication module		
✓ <b>SIX</b>	Service interface (cable of 1,5 metres)		
<b>MF2</b>	Multi-function phase monitor		
<b>PFCP</b>	Power factor correction capacitors (cosfi > 0.9)		
<b>DESM</b>	Smoke detector		
<b>DML</b>	Demand Limiti		
✓ <b>CLMX</b>	Clivet Master System		
<b>PCMO</b>	Sandwich panels of the handling zone in M0 fire reaction class		
✓ <b>AMRX</b>	Rubber antivibration mounts		
✓ <b>AMRMX</b>	Rubber antivibration mounts for unit and gas module		
✓ <b>RCX</b>	Roof curb		
<b>CECA</b>	Copper / aluminium evaporator coil with acrylic lining		
<b>CCCA</b>	Copper / aluminium condenser coil with acrylic lining		
<b>CSRT-XHE2 ONLY:</b>			
<b>RCAW</b>	Active winter thermodynamic recovery on expelled air		

### 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.

