

PACKAGED

CLIVETPACK³ⁱ

Packaged air-conditioning unit

CSRN-iY: Reversible heat pump

Air cooled

Roof Top

Capacity from 59 to 155 kW



- ✓ Refrigerant R32
- ✓ Full inverter
- ✓ Evolution of Energy recovery concept
- ✓ Energy recovery through enthalpy wheel
- ✓ Enhanced air filtration with low ventilation consumption
- ✓ Extended working limit (-15°C in heating mode)
- ✓ Reliability and increased efficiency ensured by double refrigerant circuit
- ✓ Remote and centralized system monitoring through INTELLIAIR

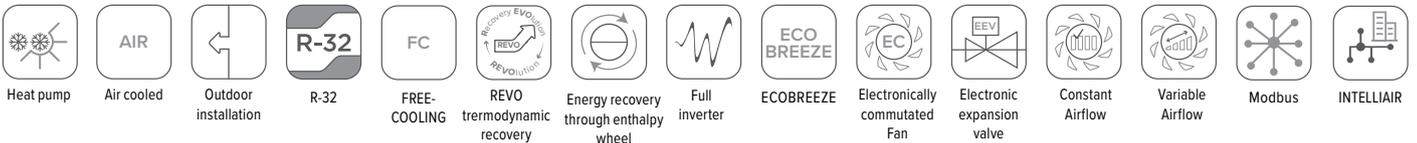


Clivet participates in the ECP Programme for "Rooftops". Check ongoing validity of certificate on: www.eurovent-certification.com

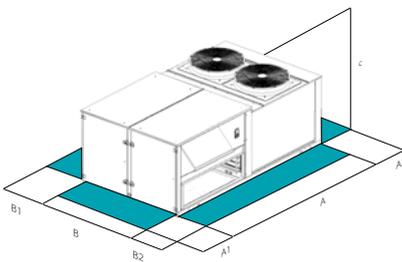


compliant
ERP

functions and features



dimensions and clearances



Size	▶▶ CSRN-iY	20.2	28.2	40.4	56.4
A - Length	mm	3190	3970	3970	5315
B - Width	mm	2300	2300	2300	2300
C - Height	mm	1480	1510	1910	1920
A1	mm	2000	2000	2000	2600
A2	mm	1500	1500	1500	1500
B1	mm	1500	1500	1500	1500
B2	mm	1500	1500	1500	1500
CAK Operating weight	kg	1087	1187	1678	2296
CBK Operating weight	kg	1087	1187	1678	2296
CBK-G Operating weight	kg	1103	1203	1714	2345
CCK-REVO Operating weight	kg	1158	1258	1744	2386

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
 CCK Configuration with double fan section for recirculation, fresh and exhaust air
 CCK-REVO Configuration with double fan section with fresh air and REVO trerodynamic recovery

CAUTION!

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

versions and configurations

CONFIGURATION:

- CAK** Configuration with single fan section for full recirculation
CBK Configuration with single fan section for recirculation and fresh air

- CBK-G** Configuration with double fan section for recirculation, fresh and exhaust air
CCK-REVO Configuration with double fan section with fresh air and REVO thermodynamic recovery

technical data

Size	►► CCSR-iY	20.2	28.2	40.4	56.4
CCK-REVO ♦ Cooling capacity	(1) kW	65,9	85,8	129,0	170,5
CCK-REVO Sensible capacity	(1) kW	55,9	72,2	99,5	155,8
CCK-REVO Compressor power input	(1) kW	18,1	21,6	38,0	49,6
CCK-REVO ♦ Cooling capacity (EN 14511:2022)	(9) kW	59,0	76,4	116,2	152
CCK-REVO EER (EN 14511:2022)	(9) -	2,86	2,82	2,67	2,68
CCK-REVO ♦ Heating capacity	(2) kW	61,0	78,5	126,0	163,7
CCK-REVO Compressor power input	(2) kW	12,6	15,7	30,1	38,0
CCK-REVO ♦ Heating capacity (EN 14511:2022)	(10) kW	58,0	75,3	119,7	159,0
CCK-REVO COP (EN 14511:2022)	(10) -	3,73	3,65	3,19	3,31
CCK-REVO Refrigeration circuits	Nr	2	2	2	2
CCK-REVO No. of compressors	Nr	2	2	4	4
CCK-REVO Type of compressors	(3) -	ROT	SCROLL	ROT	SCROLL
CCK-REVO Nominal supply airflow	m ³ /h	13000	17000	23000	32000
CCK-REVO Airflow range	m ³ /h	8500-14000	13000-20500	17000-26000	22000-34000
CCK-REVO Type of supply fan	(4) -	RAD/EC	RAD/EC	RAD/EC	RAD/EC
CCK-REVO Number of supply fans	Nr	1	2	2	3
CCK-REVO Max. static pressure supply fan	(5) Pa	330	450	410	300
CCK-REVO Type of exhaust fan	(4) -	RAD/EC	RAD/EC	RAD/EC	RAD/EC
CCK-REVO Number of exhaust fans	(6) Nr	1	2	2	2
CCK-REVO Type of external fan	(4) -	AX/EC	AX/EC	AX/EC	AX/EC
CCK-REVO Standard power supply	V	400/3~/50	400/3~/50	400/3~/50	400/3~/50
Sound power level outside	(7) dB(A)	88	89	88	90
Directive ErP (Energy Related Products)					
SEER - AVERAGE Climate	(8) -	4,92	4,70	4,85	4,52
η _{sc}	(8) %	193,8	185,0	191,0	177,8
SCOP - AVERAGE Climate	(8) -	3,91	3,79	3,81	3,93
η _{sh}	(8) %	153,4	148,6	149,4	154,2

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.

Performances are referred to operation with 30% fresh and exhaust air with thermodynamic recovery REVO (CCK-REVO)

- (1) Ambient air at 27°C/19°C W.B. Entering external exchanger air temperature 35°C D.B. / 24°C W.B.
 (2) Ambient air at 20°C D.B. / 12°C W.B., Entering external exchanger air temperature 7°C D.B. / 6°C W.B.
 (3) ROT = rotary compressor; SCROLL = scroll compressor
 (4) RAD = Radial fan; AX = Axial Fan; EC = Electronically Commutated
 (5) Net outside static pressure to win the outlet and intake onboard pressure drops

(6) Only for double fan section configuration with fresh air and REVO thermodynamic recovery (CCK-REVO)
 (7) 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 load in nominal conditions defined in respective regulations: EU 2016/2281, UE 813/2013, UE 811/2013

- (8) Data calculated according to the EN 14825:2022
 (9) Capacity in total recirculation according to EN 14511:2022, indoor air temperature 27°C D.B./19°C W.B.; outdoor temperature 35°C; EER according to EN 14511:2022
 (10) Capacity in total recirculation according to EN 14511:2022, indoor air temperature 20°C; outdoor temperature 7°C D.B./6°C W.B.; COP according to EN 14511:2022

accessories

FC	Thermal FREE-COOLING (CBK-G, CCK-REVO version)	SERMD	Modulating motorized outdoor air damper (optional for CBK, standard for CCK and CCKP)
FCE	Enthalpy FREE-COOLING (CBK-G, CCK-REVO version)	VENH	High static pressure fan
REVO	REVO exhaust air thermodynamic energy recovery (CCK-REVO version)	PVAR	Variable airflow
CHW2	Two-rows hot water coil	PCOSM	Constant supply airflow
CHWER	Energy recovery from food refrigeration	PVARDP	Variable airflow with pressure probe on the unit
3WVM	3-way modulating valve	PVMV	4-20mA signal for supply and exhaust air flow rate modulation
2WVM	2-way modulating valve	PAQC	Air quality probe for CO ₂ rate check (CBK, CBK-G, CCK-REVO version)
EH12	9 kW electric heaters (size 20.2)	PAQCV	Air quality sensor for CO ₂ and VOC rate check (CBK, CBK-G, CCK-REVO version)
EH14	12 kW electric heaters (size 20.2-28.2)	PPAQC	External CO ₂ signal management (CBK, CBK-G, CCK-REVO version)
EH17	18 kW electric heaters (size 20.2-28.2-40.4)	F7	High efficiency F7 air filter (ISO 16890 ePM1 55%)
EH20	24 kW electric heaters (size 28.2-40.4-56.4)	F9	High efficiency F9 air filter (ISO 16890 ePM1 80%)
EH24	36 kW electric heaters (size 40.4-56.4)	FIFD	Electronic filter with iFD technology (ISO 16890 ePM1 90%)
EH28	48 kW electric heaters (size 56.4)	PSAF	Differential pressure switch for dirty air filters
GC01X	Condensing gas heating module with modulating control 35 kW (sizes 20.2-28.2)	HSE3	3 kg/h immersed electrodes steam humidifier (size 20.2-28.2)
GC08X	Condensing gas heating module with modulating control 44 kW (size 20.2-28.2)	HSE5	5 kg/h immersed electrodes steam humidifier (size 20.2-28.2)
GC09X	Condensing gas heating module with modulating control 65 kW (size 20.2-28.2-40.4)	HSE8	8 kg/h immersed electrodes steam humidifier
GC10X	Condensing gas heating module with modulating control 82 kW (size 28.2-40.4-56.4)	HSE9	15 kg/h immersed electrodes steam humidifier
GC11X	Condensing gas heating module with modulating control 100 kW (size 28.2-40.4-56.4)	PUE	External humidifier management with 0-10V signal
GC12X	Condensing gas heating module with modulating control 130 kW (size 40.4-56.4)	LTEMP1	Application for low outdoor temperature
GC13X	Condensing gas heating module with modulating control 160 kW (size 56.4)	EXFLOWC	Application in spaces with forced air exhaust at variable flow and exhaust section (CCK-REVO version)
EWX	Enthalpy wheel energy recovery module (CBK-G version)	UVCX	UV-C lamp module with germicidal effect
AMRX	Rubber antivibration mounts	CMS13X	Serial communication module for Modbus TCP/IP, BACnet IP, BACnet MSTP superviso
AMRMX	Rubber antivibration mounts for unit and gas module	CTT	Temperature control with thermostat
AMRUVX	Rubber antivibration mounts for unit and UV-C Lamps module	CSOND	Temperature and humidity ambient control with built-in probes
AMREW X	Rubber antivibration mounts for unit and enthalpy wheel module	MDMTX	Management of ambient temperature probes
RCX	Roof curb	MDMTUX	Management of ambient temperature and humidity probes
PGFC	Finned coil protection grill	IOTX	IoT industrial module for cloud based interoperability & services
PGCCH	Anti-hail protection grilles	DESM	Smoke detector
PCMO	Sandwich panels of the handling zone in M0 fire reaction class	CONTA2	Energy meter
CPHG	Hot gas re-heating coil	CHMET	Cooling and Heating Capacity Meter
M3	Downward air supply	DML	Demand Limit
M5	Upflow air supply	PTCO	Set up for shipping via container
R3	Downward air return		
NSERG	Gravity exhaust air damper: not required (CBK-G version)		
SERM	Outdoor air motorized on/off damper (CBK version)		
SER	Outdoor air damper manually set (CBK version)		

Accessories whose code ends with "X" are supplied separately

Data contained in this document are not binding and may be changed by the Manufacturer without notice.

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