CLIVETPACK3I

Roof Top air-cooled reversible heat pump
Capacity from 59 to 155 kW

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

Heat pump · Air cooled · Outdoor installation · R-32 · FREE-COOLING · REVO trermodynamic recovery · Energy recovery through enthalpy wheel · Full inverter · ECOBREEZE · Electronically commutated Fan · Constant Airflow · Variable Airflow

Modbus · Silent · INTELLIAIR · ErP compliant

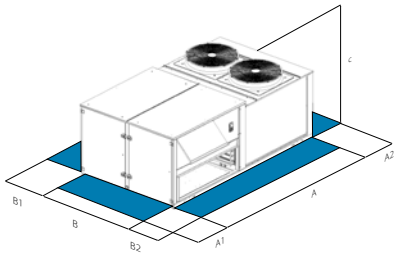
- ✓Refrigerant R32
- ✓Full inverter
- ✓Evolution of Energy recovery concept
- ✓Energy recovery through enthalpy wheel
- ✓Enhanced air filtration with low ventilation consumption
- ✓Extended working limit (-15°C in heating mode)
- ✓Reliability and increased efficiency ensured by double refrigerant circuit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

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

Dimensions and connections



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.

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

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 trermodynamic recovery

Technical data

Size			CSRN-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	72,3	99,5	133,0
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	76,5	116,2	152
CCK-REVO	EER (EN 14511:2022)	(9)	-	2,86	2,82	2,67	2,67
CCK-REVO	Heating capacity	(2)	kW	61,0	72,8	126,0	163,7
CCK-REVO	Compressor power input	(2)	kW	12,6	14,0	30,1	38,0
CCK-REVO	Heating capacity (EN 14511:2022)	(10)	kW	58,0	69,7	119,7	159,0
CCK-REVO	COP (EN 14511:2022)	(10)	-	3,73	3,71	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		m³/h	13000	17000	23000	32000
CCK-REVO	Airflow range		m³/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	4,55
$\eta_{S,C}$		(8)	%	193,8	185,0	191,0	179,0
SCOP - AVERAGE Climate		(8)	-	3,91	3,79	3,81	3,93
$\eta_{S,H}$		(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 standard 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° CW.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)
FCE	Enthalpy FREE-COOLING (CBK-G, CCK-REVO version)
REVO	REVO exhaust air thermodynamic energy recovery (CCK-REVO version)
CHW2	Two-rows hot water coil
CHWER	Energy recovery from food refrigeration
3WVM	3-way modulating valve
2WVM	2-way modulating valve
EH12	9 kW electric heaters (size 20.2)
EH14	12 kW electric heaters (size 20.2-28.2)
EH17	18 kW electric heaters (size 20.2-28.2-40.4)
EH20	24 kW electric heaters (size 28.2-40.4-56.4)
EH24	36 kW electric heaters (size 40.4-56.4)
EH28	48 kW electric heaters (size 56.4)
GC01X	Condensing gas heating module with modulating control 35 kW (size 20.2-28.2)
GC08X	Condensing gas heating module with modulating control 44 kW (size 20.2-28.2)
GC09X	Condensing gas heating module with modulating control 65 kW (size 20.2-28.2-40.4)
GC10X	Condensing gas heating module with modulating control 82 kW (size 28.2-40.4-56.4)
GC11X	Condensing gas heating module with modulating control 100 kW (size 28.2-40.4-56.4)
GC12X	Condensing gas heating module with modulating control 130 kW (size 40.4-56.4)
GC13X	Condensing gas heating module with modulating control 160 kW (size 56.4)
EWX	Enthalpy wheel energy recovery module (CBK-G version)
AMRX	Rubber antivibration mounts
AMRMX	Rubber antivibration mounts for unit and gas module
AMRUVX	Rubber antivibration mounts for unit and UV-C Lamps module
AMREWX	Rubber antivibration mounts for unit and enthalpy wheel module
RCX	Roof curb
PGFC	Finned coil protection grilles
PGCCH	Anti-hail protection grilles
PCM0	Sandwich panels of the handling zone in M0 fire reaction class
CPHG	Hot gas re-heating coil
M3	Downward air supply
M5	Upflow air supply
ML	Sideward air supply
R3	Downward air return
R5	Upward return (CAK, CBK, CCK-REVO version)
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)
SERMD	Modulating motorized outdoor air damper (optional for CBK, standard for CCK and CCKP)
VENH	High static pressure fan
PVAR	Variable airflow
PCOSM	Constant supply airflow
PVARDP	Variable airflow with pressure probe on the unit
PVMV	4-20mA signal for supply and exhaust air flow rate modulation
PAQC	Air quality probe for CO_2 rate check (CBK, CBK-G, CCK-REVO version)
PAQCV	Air quality sensor for CO_2 and VOC rate check (CBK, CBK-G, CCK-REVO version)
PAQC2	Double air quality probe for CO_2 rate check
PAQCV2	Double air quality probe for CO_2 and VOC rate check
PPAQC	External CO_2 signal management (CBK, CBK-G, CCK-REVO version)
F7	High efficiency F7 air filter (ISO 16890 ePM1 55%)
F9	High efficiency F9 air filter (ISO 16890 ePM1 80%)
FIFD	Electronic filter with iFD technology (ISO 16890 ePM1 90%)
PSAF	Differential pressure switch for dirty air filters
HSE3	3 kg/h immersed electrodes steam humidifier (sizes 20.2-28.2)
HSE5	5 kg/h immersed electrodes steam humidifier (sizes 20.2-28.2)
HSE8	8 kg/h immersed electrodes steam humidifier (size
HSE9	15 kg/h immersed electrodes steam humidifier
PUE	External humidifier management with 0-10V signal
LTEMP1	Application for low outdoor temperature
RPVI	Refrigerant leak detector in soundproof compressor compartment
EXFLOWC	Application in spaces with forced air exhaust at variable flow and exhaust section (CCK-REVO version)
UVCX	UV-C lamp module with germicidal effect
CMSC13X	Serial communication module for Modbus TCP/IP, BACnet IP, BACnet MSTP superviso
CTT	Temperature control with thermostat
CSOND	Temperature and humidity ambient control with built-in probes
MDMTX	Management of ambient temperature probes
MDMTUX	Management of ambient temperature and humidity probes
MDMADX	Advanced monitoring and management ambient probes
IOTX	It1IIoT industrial module for cloud based interoperability & services
DESM	Smoke detector
CONTA2	Energy meter
CHMET	It1ICooling and Heating Capacity Meter
DML	Demand Limit
PTCO	Set up for shipping via container

Accessories whose code ends with "X" are supplied separately
For compatibility between the various accessories, please refer to the dedicated Technical Bulletin or our website in the Systems and Products section.

Valid from: January 2026 - REF. DG26A003GB-00