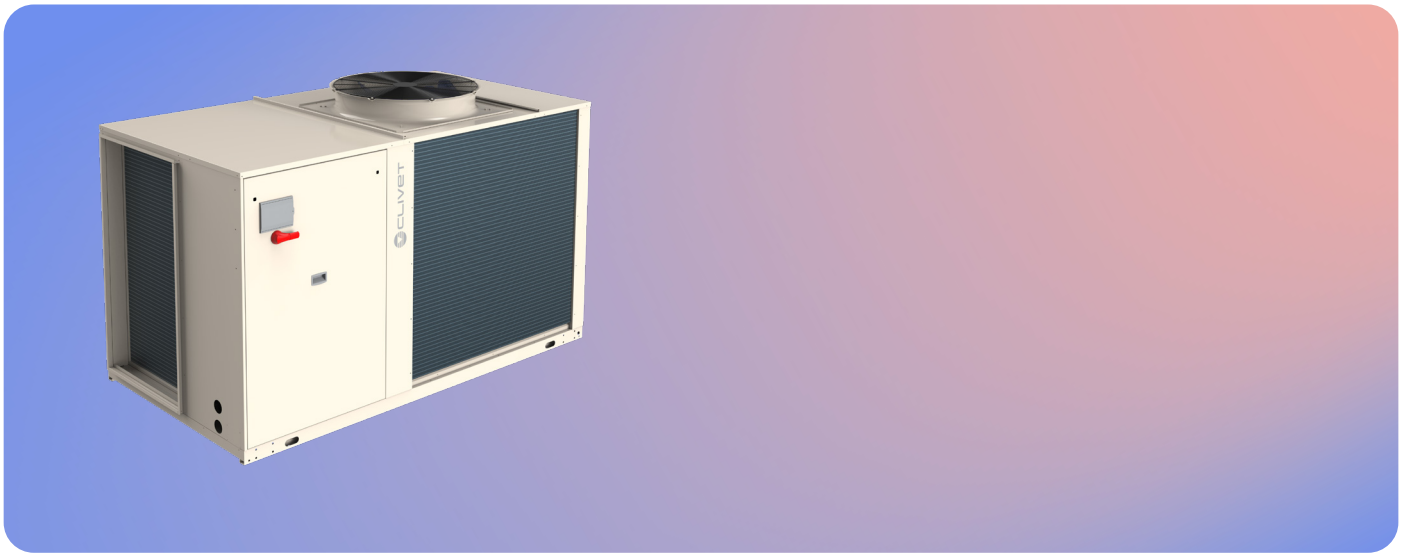
SMARTPACK3

Roof Top air-cooled reversible heat pump
Capacity from 25,3 to 42,4 kW



Heat pump
Air cooled
Outdoor installation
R-454C
FREE-COOLING
REVO trermodynamic recovery
Full inverter
ECOBREEZE
Electronically commutated Fan
Constant Airflow
Variable Airflow
Modbus
Silent
INTELLIAIR
ErP compliant

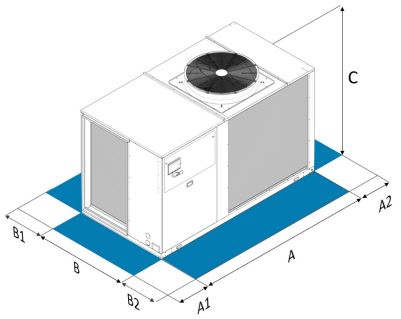
- ✓R454C refrigerant
- ✓Full inverter
- ✓Packaged unit
- ✓Wide operating range (-20°C in heating mode)
- ✓Evolution of Energy recovery concept
- ✓Enhanced air filtration with low ventilation consumption
- ✓Remote and centralized system monitoring through INTELLIAIR

Versions and configurations

CONFIGURATION:

CAK	Configuration with single fan section for full recirculation
CBK	Configuration with single fan section for recirculation and fresh air
CCK-REVO	Configuration with double fan section with fresh air and REVO thermodynamic recovery

Dimensions and connections



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

Size		CKN-iM	10.1	14.1
A - Length		mm	2506	2906
B - Width		mm	1190	1590
C - Height		mm	1510	1838
A1		mm	1000	1000
A2		mm	1000	1000
B1		mm	1000	1000
B2		mm	1000	1000
CAK	Operating weight	kg	547	696
CBK	Operating weight	kg	547	696
CCK-REVO	Operating weight	kg	571	734

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-REVO Configuration with double fan section with fresh air and REVO trermodynamic recovery

Technical data

Size			CKN-iM	10.1	14.1
CCK-REVO	Cooling capacity	(1)	kW	27,7	46,4
CCK-REVO	Sensible capacity	(1)	kW	22,9	36,2
CCK-REVO	Compressor power input	(1)	kW	7,12	15,4
CCK-REVO	Heating capacity	(2)	kW	27,7	48,0
CCK-REVO	Compressor power input	(2)	kW	5,51	8,77
CCK-REVO	Refrigeration circuits		Nr	1	1
CCK-REVO	No. of compressors		Nr	1	1
CCK-REVO	Type of compressors	(3)	-	SCROLL	SCROLL
CCK-REVO	Nominal supply airflow		m³/h	5000	9000
CCK-REVO	Airflow range		m³/h	3200-6500	6000-12000
CCK-REVO	Type of supply fan	(4)	-	RAD/EC	RAD/EC
CCK-REVO	Number of supply fans		Nr	1	1
CCK-REVO	Max. static pressure supply fan	(5)	Pa	510	570
CCK-REVO	Type of exhaust fan	(4)	-	RAD/EC	RAD/EC
CCK-REVO	Number of exhaust fans	(6)	Nr	1	1
CCK-REVO	Type of external fan	(4)	-	AX/EC	AX/EC
CCK-REVO	Standard power supply		V	400/3~/50 +N	400/3~/50 +N
CCK-REVO	Casing sound power level	(7)	dB(A)	81	86
Directive ErP (Energy Related Products)					
Cooling capacity		(8)	kW	25,3	42,4
EER		(8)	-	2,96	2,34
SEER		(10)	-	4,72	4,47
ns,c		(10)	%	185,8	175,8
Heating capacity		(9)	kW	26,0	45,8
COP		(9)	-	3,60	3,84
SCOP		(10)	-	3,66	3,77
ns,h		(10)	%	143,4	147,8

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) Indoor air at 27°C/19°C W.B. Entering external exchanger air temperature 35°C D.B. / 24°C W.B.
(2) Indoor air at 20°C D.B. / 12°C W.B., Entering external exchanger air temperature 7°C D.B. / 6°C W.B.
(3) SCROLL = Scroll compressor
(4) RAD = Radial fan; AX = Axial Fan; EC = Electronically Commutated
(5) Net outside static pressure in standard configuration
(6) Only for double fan section configuration with fresh air and REVO thermodynamic recovery (CCK-REVO)
(7) Sound power values refer to units at full load, under nominal test conditions. The measurements are performed in accordance with the UNI EN ISO 9614-1 standard, at the standard nominal conditions defined in the respective regulations: EU 2016/2281, EU 813/2013,
(8) 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
(9) Capacity in total recirculation according to EN 14511:2022, indoor air temperature 20°C; outdoor temperature 7°C D.B./6° CW.B.; COP according to EN 14511:2022
(10) Data calculated according to the EN 14825:2022, average climate

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Accessories

REVO	REVO exhaust air thermodynamic energy recovery (CCK-REVO version)
CHW2	Two-rows hot water coil
3WVM	3-way modulating valve
2WVM	2-way modulating valve
EH10	6 kW electric heaters (Size 10.1)
EH12	9 kW electric heaters (Size 10.1)
EH15	13,5 kW electric heaters
EH17	18 kW electric heaters (Size 14.1)
EH20	24 kW electric heaters (Size 14.1)
GC01X	35 kW Condensing gas heating module and modulating control
GC08X	44 kW Condensing gas heating module and modulating control
GC09X	65 kW Condensing gas heating module and modulating control (size 14.1)
HSE3	3 kg/h immersed electrode steam humidifier
HSE5	5 kg/h immersed electrode steam humidifier (gr. 14.1)
HSE8	8 kg/h immersed electrode steam humidifier (gr. 14.1)
PUE	External humidifier management with 0-10V signal
AMRX	Rubber antivibration mounts
AMRMX	Rubber antivibration mounts for unit and gas module
PGCCH	Anti-hail protection grilles
LTEMP1	Application for low outdoor temperature
CPHG	Hot gas re-heating coil
RPRC	Compressors vane refrigerant leak detector
RPRMX	Remote supply duct refrigerant leak detector
RPRCMX	Remote supply duct refrigerant leak detector and compressors vane refrigerant leak detector
FC	Thermal FREE-COOLING (CCK-REVO version)
FCE	Enthalpy FREE-COOLING (CCK-REVO version)
EXFLOWC	Application in spaces with forced air exhaust at variable flow and exhaust section (CCK-REVO version)
SER	Outdoor air damper manually set (CBK version)
SERM	Outdoor air motorized on/off damper (CBK version)
SERMD	Modulating motorised outdoor air damper (optional for CBK, standard for CCK-REVO)
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, CCK-REVO version)
PAQCV	Air quality probe for CO_2 and VOC rate check (CBK, CCK-REVO version)
PAQC2	Double air quality probe for CO_2 rate check (CBK, CCK-REVO version)
PAQCV2	Double air quality probe for CO_2+VOC monitoring (CBK, CCK-REVO version)
PPAQC	External CO_2 signal management (CBK, CCK-REVO version)
F7	High efficiency F7 air filter (ISO 16890 ePM1 55%)
F9	High efficiency F9 air filter (ISO 16890 ePM1 80%)
PSAF	Differential pressure switch for dirty air filters
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
IOTI	IoT industrial module for cloud based interoperability & services
DESM	Smoke detector
CONTA2	Energy meter
CHMET	Cooling 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.

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