

SMARTPACK²

Packaged air-conditioning unit

CKN-XHE2i: Reversible heat pump

Air cooled

Roof Top

Capacity from 19 to 42 kW



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



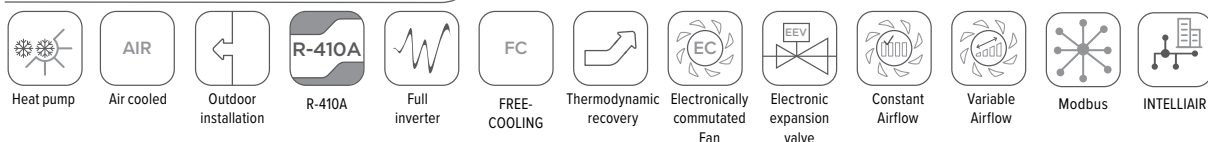
compliant
ErP



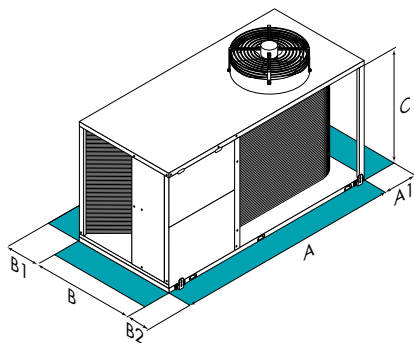
Control keypad standard supplied. Main functions:
unit on/off
unit main information
daily/weekly programming
temperature set-point modification
humidity set-point modification
manual or automatic summer/winter switching

- ✓ Full inverter
- ✓ High part load efficiency
- ✓ Extended working limit (-15°C in heating mode)
- ✓ Enhanced air filtration with low ventilation consumption
- ✓ Thermodynamic recovery
- ✓ Smart Freecooling and Defrosting management
- ✓ All component included on board for an enhanced installation
- ✓ Remote and centralized system monitoring through INTELLIAIR

functions and features



dimensions and clearances



Size		▶▶ CKN-XHE2i	7.1	10.1	14.2
A - Length	mm		2250	2250	2610
B - Width	mm		1150	1150	1590
C - Height	mm		1210	1510	1660
A1	mm		1000	1000	1000
B1	mm		1000	1000	1000
B2	mm		1000	1000	1000
CAK/CBK	Operating weight	kg	416	496	635
CCK	Operating weight	kg	434	520	670

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 Full recirculation (CAK)

CBK Recirculation and renewal air (CBK)

CCK Configuration with double fan section for recirculation, fresh and exhaust air

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

CCK Configuration with double fan section for recirculation, fresh and exhaust air

technical data

Size	►► CKN-XHE2i	7.1	10.1	14.2
♦ Cooling capacity	(1) kW	20,2	30,0	45,2
Sensible capacity	(1) kW	16,8	24,9	37,9
Compressor power input	(1) kW	5,4	8,7	11,8
♦ Cooling capacity (EN 14511:2022)	(9) kW	19,0	28,4	42,1
EER (EN 14511:2022)	(9) -	3,08	2,88	2,97
♦ Heating capacity	(2) kW	20,2	28,3	42,8
Compressor power input	(2) kW	4,9	7,2	10,0
♦ Heating capacity (EN 14511:2022)	(10) kW	20,5	29,1	43,1
COP (EN 14511:2022)	(10) -	3,26	3,25	3,28
Refrigeration circuits	Nr	1	1	1
No. of compressors	Nr	1	1	2
Type of compressors	(3) -	ROT	SCROLL	ROT
Nominal supply airflow	m³/h	4000	6000	9000
Airflow range	m³/h	3200-5000	4300-6800	6400-10500
Type of supply fan	(4) -	RAD/EC	RAD/EC	RAD/EC
Number of supply fans	Nr	1	1	1
Max. static pressure supply fan	(5) Pa	380	680	510
Type of exhaust fan	(4) -	RAD/EC	RAD/EC	RAD/EC
Number of exhaust fans	(6) Nr	1	1	1
Type of external fan	(4) -	AX/EC	AX/EC	AX/EC
Standard power supply	V	400/3~/50 +N	400/3~/50 +N	400/3~/50 +N
Sound power level outside	(7) dB(A)	83	85	88
Directive ErP (Energy Related Products)				
SEER - AVERAGE Climate	(8) -	4,58	4,37	4,48
η _{sc}	(8) %	180,2	171,9	176,2
SCOP - AVERAGE Climate	(8) -	3,22	3,20	3,27
η _{sh}	(8) %	125,8	125,0	127,8

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.

Performance data are referred to operation with 30% of outdoor and exhaust air; (configuration CCK)

(1) Ambient air at 27°C/19°C W.B. Entering external exchanger air temperature 35°C

(2) Ambient temperature 20°C DB. Outside temperature 7°C DB/6°C WB

(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) Configuration for outdoor air supply with exhaust and extraction; (only with CCK configuration)

(7) Sound pressure levels are referred to units operating at nominal load in nominal conditions. Measurements are carried out accordingly to EN 12101-1 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°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

FCE Enthalpy FREE-COOLING
PAQC SAir quality probe for CO₂ rate check
PAQCV Air quality sensor for CO₂ and VOC rate check
SER Outdoor air damper manually set (CBK version)
SERM Outdoor air motorized on/off damper (CBK version)
SFCM Modulating motorized free-cooling damper (available only with options: CCK)
PCOSM Constant supply airflow
PVAR Variable airflow
GC01 Condensing gas heating module with modulating control 35 kW
GC08 Condensing gas heating module with modulating control 44kW
GC09 Condensing gas heating module with modulating control 65kW
GC10 Condensing gas heating module with modulating control 82kW
PGFC Finned coil protection grill
PGCCH Anti-hail protection grilles
F7 High efficiency F7 air filter (ISO 16890 ePM1 55%)
F9 High efficiency F9 air filter (ISO 16890 ePM1 80%)
FES Electronic filters (ISO 16890 ePM1 90%)
PSAF Differential pressure switch for dirty air filters
CHW2 Two-rows hot water coil
3WVM 3-way modulating valve

EH10 6 kW electric heaters
EH12 9 kW electric heaters
EH15 13.5 kW electric heaters
EH17 18 kW electric heaters
EH20 24 kW electric heaters
CPHG Hot gas re-heating coil
HSE3 3 kg/h immersed electrodes steam humidifier
HSE5 5 kg/h immersed electrodes steam humidifier
HSE8 8 kg/h immersed electrodes steam humidifier
AMRX Rubber antivibration mounts
UVC UV-C germicidal lamps
PCMO Sandwich panels of the handling zone in M0 fire reaction class
VENH High static pressure fans
CSOND Temperature and humidity ambient control with built-in probes
CTT Temperature control with thermostat
PTAAX Remote ambient air temperature sensor
IOTX IoT industrial module for cloud based interoperability & services
PTCO Set up for shipping via container
LBPF Packed in a wooden box + fumigation

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.

www.clivet.com