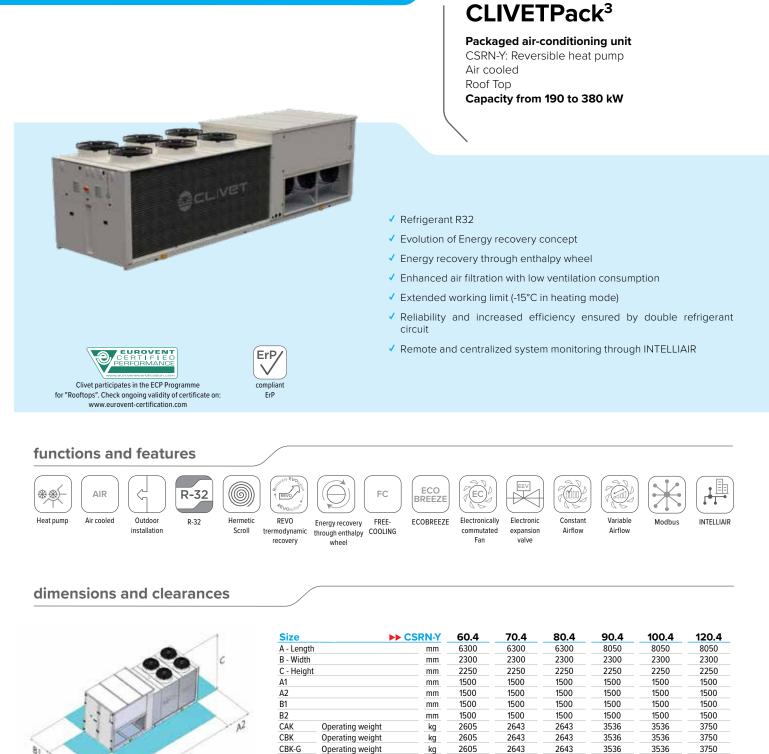


# 60.4 ÷ 120.4

3728

3942



CCK-REVO Operating weight 2745 2783 2783 3728 kg 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

CLIVET

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

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

81

8

CAUTION!

85

# versions and configurations

#### CONFIGURATION:

САК Configuration with single fan section for full recirculation

СВК Configuration with single fan section for recirculation and fresh air

CCK-REVOConfiguration with double fan section with fresh air and REVO thermodynamic recovery

## technical data

Size	<b>&gt;&gt;</b>	CSRN-Y	60.4	70.4*	80.4*	90.4*	100.4*	120.4*
CCK-REVO 🔹 Cooling capacity	(1)	kW	209	234	265	296	324	378
CCK-REVO Sensible capacity	(1)	kW	159	179	207	226	247	282
CCK-REVO Compressor power input	(1)	kW	47,9	54,0	64,7	65,8	73,6	95,1
CCK-REVO   Cooling capacity (EN 14511:2022)	(9)	kW	191,0	213,9	240,7	270,3	296,0	344,0
CCK-REVO EER (EN 14511:2022)	(9)	-	3,40	3,40	3,20	3,45	3,42	3,14
CCK-REVO    Heating capacity	(2)	kW	199	220	248	284	309	363
CCK-REVO Compressor power input	(2)	kW	43,5	48,7	54,6	60,0	67,7	87,6
CCK-REVO    Heating capacity (EN 14511:2022)	(10)	kW	191,8	213,5	242,7	274,0	298,8	352,5
CCK-REVO COP (EN 14511:2022)	(10)	-	3,44	3,44	3,46	3,50	3,43	3,19
CCK-REVO Refrigeration circuits		Nr	2	2	2	2	2	2
CCK-REVO No. of compressors		Nr	4	4	4	4	4	4
CCK-REVO Type of compressors	(3)	-	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL
CCK-REVO Supply air flow rate		m³/h	33000	37000	44000	49000	53000	58000
CCK-REVO Type of supply fan	(4)	-	RAD/EC	RAD/EC	RAD/EC	RAD/EC	RAD/EC	RAD/EC
CK-REVO Number of supply fans		Nr	4	4	4	6	6	6
CCK-REVO Max. static pressure supply fan	(5)	Pa	870	760	580	860	810	740
CCK-REVO Type of exhaust fan	(4)	-	RAD/EC	RAD/EC	RAD/EC	RAD/EC	RAD/EC	RAD/EC
CCK-REVO Number of exhaust fans	(6)	Nr	2	2	2	2	2	2
CCK-REVO Type of external fan	(4)	-	AX/AC	AX/AC	AX/AC	AX/AC	AX/AC	AX/AC
CCK-REVO Standard power supply		V	400/3~/50	400/3~/50	400/3~/50	400/3~/50	400/3~/50	400/3~/50
Sound power level outside	(7)	dB(A)	92	94	97	95	96	98
Directive ErP (Energy Related Products)								
EER - AVERAGE Climate	(8)	-	4,74	4,69	4,37	4,44	4,31	4,16
sc	(8)	%	186,6	184,7	171,7	174,7	169,5	163,5
COP - AVERAGE Climate	(8)	-	3,41	3,47	3,42	3,42	3,39	3,37
η <sub>s.н</sub>		%	133,5	135,8	133,9	133,9	132,5	132,0

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.

\* models so marked are not Eurovent certified (out of scope) 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) SCROLL = Scroll compressor
 (4) RAD = Radial fan; AX = Axial Fan; EC = Electronically Commutated; AC = Alternatig current

(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

Wessiterine's are carried out according to the ISO 96/4-1 at nonliniar standard conductors 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





CBK-G Configuration with double fan section for recirculation, fresh and exhaust air

### 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)
CREFB	Device for fan consumption reduction of the external section, ECOBREEZE type
CHW2	Two-rows hot water coil
CHWER	Energy recovery from food refrigeration
3WVM	3-way modulating valve
2WVM	2-way modulating valve
EH20	24 kW electric heaters
EH24	36 kW electric heaters
EH28	48 kW electric heaters
GC10X	Condensing gas heating module with modulating control 82 kW (sizes $60.4 \div 80.4$ )
GC11X	Condensing gas heating module with modulating control 100 kW (sizes $60.4 \div 80.4$ )
GC12X	Condensing gas heating module with modulating control 130 kW (sizes 90.4+120.4)
GC13X	Condensing gas heating module with modulating control 164 kW
GC06X	Condensing gas heating module with modulating control 200 kW
GC07X	Condensing gas heating module with modulating control 300 kW (sizes 90.4÷120.4)
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 grill
PGCCH	Anti-hail protection grilles
PCM0	Sandwich panels of the handling zone in MO fire reaction class
CPHG	Hot gas re-heating coil
M3	Downward supply
M5 R3	Upward supply
SER	Downward air return Outdoor air damper manually set (CBK version)
SERM	Outdoor air motorized on/off damper (CBK version)
SFCM	Modulating motorised FREE-COOLING damper (Optional for CBK, Standard for CBK-G and CCK-REVO)
NSERG	Gravity exhaust air damper: not required (CBK-G version)
VENH	High static pressure fan
	<u> </u>

PVAR	Variable air flow
PCOSM	Constant supply airflow
PVARDP SPVAR	Variable airflow with pressure probe on the unit 0-10 V signal for air flow modulation
PAQC	Air quality probe for $CO_2$ rate check (CBK, CBK-G, CCK-REVO version)
PAQCV	Air quality sensor for $\rm{CO}_2$ and VOC rate check (CBK, CBK-G, CCK-REVO version)
PAQC2	Double air quality probe for CO <sub>2</sub> rate check (CBK, CBK-G, CCK-REVO version)
PAQCV2	Double air quality probe for CO <sub>2</sub> and VOC rate check (CBK, CBK-G, CCK-REVO version)
PPAQC	External CO <sub>2</sub> signal management
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
HSE8	8 kg/h immersed electrodes steam humidifier
HSE9	15 kg/h immersed electrodes steam humidifier
PUE	External humidifier management with 0-10V signal
LTEMP1	Application for low outdoor temperature
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
BRCI	Sloping drain pan
LON	TP/FT serial port with LonWorks protocol
BACIP	BACnet-IP serial communication module
BACMSTP	BACnet-MSTP serial communication module
SFSTR	Disposal for inrush current reduction
NCRC	Remote control with user interface: not required
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
ΙΟΤΧ	IoT industrial module for cloud based interoperability & services
SIX	Service interface (cable of 1,5 metres)
PFCC	Power factor correction capacitors (cosfi > 0.95)
DESM	Smoke detector
CONTA2	Energy meter
CHMET	Cooling and Heating Capacity Meter
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.