



The system in a single unit

Electronically controlled fans

Thermodynamic energy recovery

Version with variable capacity



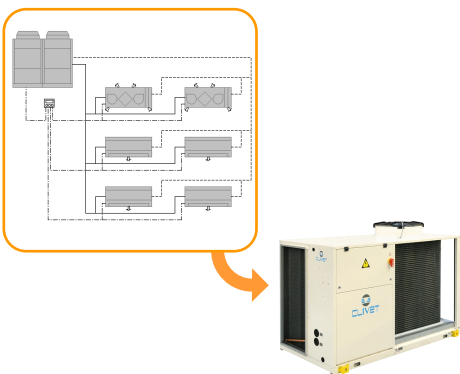
SMARTPACK

The rooftop unit that heats and cools all year round, purifies and renews the air with high energy efficiency in commercial and industrial applications with small and medium surfaces



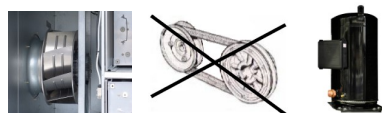
CKT-XHE / CKN-XHE 41 - 151

High efficiency autonomous direct expansion rooftop unit.
Cooling only / Air-air heat pump.

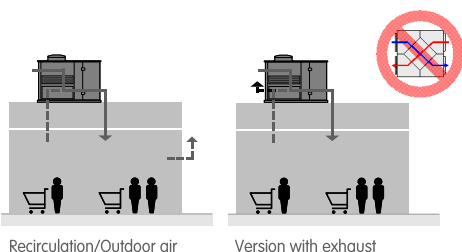


ALL IN A SINGLE UNIT Cooling, dehumidification, air purification and renewal as well as heating are the functions that are managed automatically by SMARTPACK, the compact rooftop unit for the climate control of small to medium sized individual shops, showrooms, outlet villages, bars and restaurants, service stations, technical rooms and production areas.

THE INDUSTRIALISED SMARTPACK SYSTEM simplifies the system and increases its reliability. Most of the usual installation activities are already implemented inside the unit and individually tested. Simply connect the air distribution channels and power the unit, with a great reduction in the overall costs in comparison to traditional solutions.



HIGH ENERGY EFFICIENCY is obtained thanks to electronically controlled fans, the use of Scroll compressors in the cooling circuit and electronic air filters, reducing annual operating costs and the environmental impact.



THE VERSION WITH INTEGRATED EXHAUST also makes the management of the renewal air completely automatic and further improves energy efficiency, thanks to the thermodynamic recovery of energy from the exhaust air.

THE VERSION WITH VARIABLE CAPACITY, which uses Digital Scroll™ technology, on models 41-71, perfectly follows the load, supplying the capacity effectively requested. This reduces consumption and further improves user comfort.



HIGH HEATING EFFICIENCY In heat pump mode, SMARTPACK can be used in severe climates down to outdoor temperatures of -12°C , but its operating range can be extended to -20°C with the hot water coil complete with regulation.

Technical data

Sizes		41	51	61	71	91	101	131	151
Nominal air flow	m ³ /h	2.200	2.700	3.400	4.100	5.200	6.400	8.000	9.600
Fan type	-	Plug fan a controllo elettronico							
Compressor type	-	Scroll R410A							
Dimensions (length x depth x height)	mm	1.990 x 1.270 x 1.005	2.320 x 1.270 x 1.305	2.320 x 1.270 x 1.605	2.680 x 1.710 x 1.605				

CKT-XHE e CKN-XHE

Total cooling capacity	(1)	kW	12,7	15,5	21,4	24,0	30,3	34,2	45,6	52,3
Sensible cooling capacity	(1)	kW	10,4	12,0	16,7	18,2	23,8	26,5	35,6	41,4
EER in reference to the compressors	(1)	-	4,57	3,90	4,58	4,31	4,42	4,13	4,56	4,38

CKN-XHE

Heating capacity	(2)	kW	12,2	15,3	20,9	23,5	29,9	34,3	44,1	51,2
COP in reference to the compressors	(2)	-	6,12	5,53	5,80	5,71	5,80	5,69	5,90	5,73

Data in reference to the following conditions

(1) Exhaust air temperature 27°C d.b. / 19°C W.B. Outdoor air temperature 35°C d.b. / 24°C W.B.
(2) Exhaust air temperature 20°C d.b. / 14°C W.B. Outdoor air temperature 7°C d.b. / 6°C W.B.

The performance refers to standard units, operating with 30% outdoor air and exhaust air

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