



ONIX CXPA with R-410A

A split in the right measure...



In Trane we have the product that best suits your needs.

It's hard to stop a Trane.

Onix is a product designed to serve different commercial and industrial markets.

The ONIX line offers the following features:

- **11 Models** with capacities ranging from 5 to 50 TR, and airflow ranging from 1600 to 23543 CFM;.
- **The enclosure** for the coil and fan modules uses galvanized steel sheet, internally insulated with expanded aluminized polyethylene.
- **Flow Options** for vertical or horizontal mounting, including for a downflow configuration, preset in the factory by the customer.
- **TRANE Wavy-3B coils** built with seamless copper tubes, mechanically expanded in aluminum fins for perfect contact between the fins and tubes.
- **Standard filtering** with a class G4 filter in disposable expanded fiberglass matting.
- **4 or 2 pole motors** running at 60Hz or 50Hz, with an open enclosure, degree of protection IP21 (for motors up to 3 hp) and IP55 (for motors over 5 hp) with adjustable pulley.
- **Sirocco fans** with blades forward-curved, sized to overcome total static pressures of up to 60 mmca/ 2.35 inH2O.
- **Paint finish:** parts are subjected to a modern phosphating process and subsequent powder coating with POLYESTER base resin, which provides high resistance to Trane equipment. After this process, the parts are cured in an oven at 200°C, providing a final resistant coating.

- **Ecological Cooling Unit - R-410A** for units in 60Hz and R-407C only for units in 50Hz.

Compressor Scroll

TRAE/TRCE units are equipped with fixed Scroll compressors, of the newly-developed generation.

The main advantages of Scroll compressors in Onix Trane units compared with a traditional scroll compressor are:

- Increase in energy efficiency up to 7% and better compressor operation under partial loads.
- Improvement in compressor performance and reliability by working in optimized compression rates.
- Better oil level control.

- TOPSS Selection Program.

Coil Module

This module comprises a G4 standard filter, cooling coil, expansion valve and condensate tray.

Fan Module

Comprises fan blades forward-curved, drive motor with (adjustable) motor pulley and (fixed) fan pulley, and V-belt transmission.

Optional Equipment

- Special packaging.
- ReliaTel® microprocessor control option that enables the integration of ONIX with the TRANE installation management system, Tracer Summit.



- **Capacitor** for power factor correction.
- **Liquid Sight Glass.** - **Coils** can be made with copper tubes and aluminum fins "Yellow Fin" additional protection is available and it is optional.

Condensing Units

TRAE capacitors offer horizontal discharge in models from 5 to 15 TR and vertical discharge in models exceeding 20 TR. TRCE units offer horizontal discharge in all sizes. The structure is made of galvanized steel sheet with paint finish. The coils are made of Wavy-3B aluminum fin in TRAE and Microcanal ("Micro channel") in the TRCE.



The Trane ONIX Split System was designed and planned to satisfy the most demanding market conditions. Combining versatility of installation, easy maintenance and low costs, the CXPA model comprises:

CXPA Module:

- Coil Module
- Fan Module

TRAE Condensing Unit

TRCE Condensing Unit



Table 02 - ONIX Line Assembly Combinations

Assembly			
Modules			
Models	Nominal	Condensing Unit	
	Cap. (TON)	TRCE	TRAE
CXPA05 - 1 circ.	5	TRCE050 - 1 circ.	TRAE050 - 1 circ.
CXPA07 - 1 circ.	7,5	TRCE075 - 1 circ.	TRAE075 - 1 circ.
CXPA10 - 2 circ.	10	TRCE100 or 2x TRCE050	TRAE100 or TRAE050
CXPA12 - 2 circ.	12,5	TRCE050 + TRCE075	TRAE050 + TRAE075
CXPA15 - 2 circ.	15	TRCE150 ou 2x TRCE075	TRAE150 ou 2x TRAE075
CXPA20 - 2 circ.	20	2x TRCE100 - 1 circ.	TRAE200 - 2 circ. or 2xTRAE100 - 1 circ.
CXPA25 - 2 circ.	25	TRCE 150 - 1 circ.+ TRCE 100 - 1 circ.	TRAE250 - 2 circ.
CXPA30 - 2 circ.	30	2x TRCE150 - 1 circ.	TRAE150 - 1 circ.
CXPA35 - 2 circ.	35	No Option	TRAE150 - 1 circ. + TRAE200 - 1 circ.
CXPA40 - 2 circ.	40	No Option	2 x TRAE200 - 1 circ.
CXPA50 - 2 circ.	50	No Option	2 x TRAE250 - 1 circ.

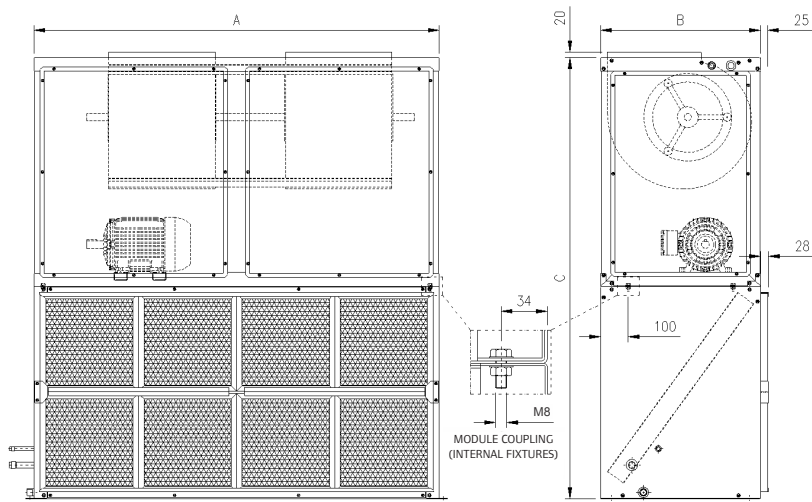
Table 01 - Technical Specifications CXPA 050 - 500 - Standard.

		CXPA 050	CXPA 075	CXPA 100		CXPA 125	CXPA 150		CXPA 200	CXPA 200	CXPA 250	CXPA 250	CXPA 300	CXPA 350	CXPA 400	CXPA 500
Nominal Capacity	TR	5	7,5	10	10	12,5	15	15	20	20	25	25	30	35	40	50
Coil Module																
Number of Circuits		1	1	1	2	2	1	2	1	2	1	2	2	2	2	2
Length	mm	950	1135	1420	1420	1470	1470	1470	1920	1920	1870	1870	2200	2770	2770	2770
Depth	mm	485	565	660	660	580	580	580	670	670	800	800	800	800	900	900
Height	mm	510	590	585	585	770	940	940	880	880	1100	1100	1100	1100	1220	1490
Copper Tube Diam.	inch	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
Rows		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
FPF (Fins per foot)		132	144	132	132	132	144	144	156	156	156	156	156	156	156	156
Finned face area	m2	0,37	0,56	0,71	0,71	0,93	1,11	1,11	1,47	1,47	1,83	1,83	2,21	2,61	2,97	3,72
Fan Module																
Length	mm	950	1135	1420	1420	1470	1470	1470	1920	1920	1870	1870	2200	2770	2770	2770
Depth	mm	485	565	660	660	580	580	580	670	670	800	800	800	800	900	900
Height	mm	510	590	690	690	830	830	830	1000	1000	1100	1100	1100	1100	1220	1220
Transmission Option																
No. of Fans		1	1	1	1	2	2	2	2	2	2	2	2	3	3	3
Standard	hp	1,0	1,0	1,5	1,5	2,0	3,0	3,0	4,0	4,0	4,0	4,0	5,0	7,5	7,5	7,5
Option 1	hp	1,5	2,0	2,0	2,0	3,0	4,0	4,0	6,0	6,0	6,0	6,0	7,5	10,0	10,0	12,5
Option 2	hp	1,5	3,0	4,0	4,0	5,0	5,0	5,0	7,5	7,5	10,0	10,0	10,0	12,5	12,5	15,0
Airflow - Min.	m3/h	2720	4080	5440	5440	6800	8160	8160	10880	10880	13600	13600	16320	19040	21760	27200
Airflow - Nom.	m3/h	3400	5100	6800	6800	8500	10200	10200	13600	13600	17000	17000	20400	23800	27200	34000
Airflow - Max.	m3/h	4000	6000	8000	8000	10000	12000	12000	16320	16320	20400	20400	24480	28560	32640	40000

Note:

(1) According to ARI 210 / (2) Details: 220V/60Hz / (3) Dimensions: mm

Figure 01 - Dimensional Data CXPA 050 - 500 - Vertical Enclosure

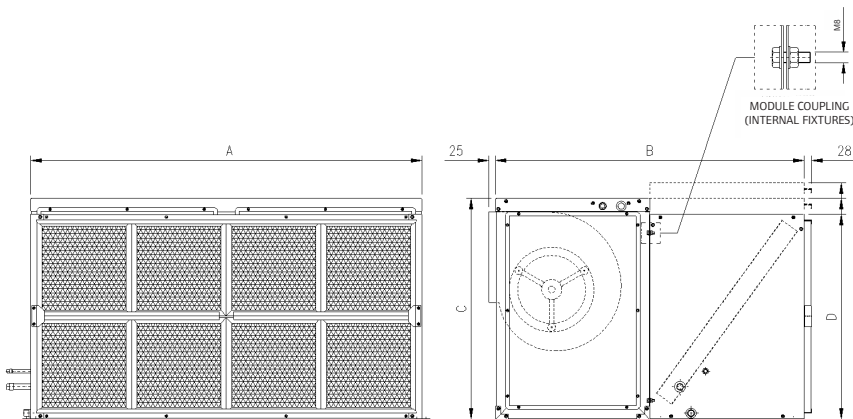


Model	050	075	100	125	150	200	250	300	350	400	500
A	950	1135	1420	1470	1470	1920	1870	2200	2770	2770	2770
B	485	565	660	580	580	670	800	800	800	900	900
C	1020	1180	1275	1600	1770	1880	2200	2200	2200	2440	2710

Units: mm



Figure 02 - Dimensional Data CXPA 050 - 500 - Horizontal Enclosure



Model	050	075	100	125	150	200	250	300	350	400	500
A	950	1135	1420	1470	1470	1920	1870	2200	2770	2770	2770
B	970	1130	1320	1160	1160	1340	1600	1600	1600	1800	1800
C	510	590	690	830	830	1000	1100	1100	1100	1220	1220
D	510	590	585	770	940	880	1100	1100	1100	1220	1490

Units: mm



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