SCM FRIGO

CUBO smart 2

SUSTAINABLE COLD

products of
BEIJER REF
made by
SCM FRIGO

According to SCM Natural Choice, we have developed a range of CO_2 transcritical condensing units with a very low carbon footprint and lower energy consumption than the traditional HFC solutions. Design is compact and units are easy to install and maintain. Units are equipped with gas cooler and electrical panel, tested and factory programmed for an easy start-up.

STANDARD CONFIGURATION

- DC Brushless Rotary compressor
- Inverter modulation 25% - 100%
- EC fans
- Small footprint
- K65 connections
- Design pressure: 120 bar (high pressure side) / 80 bar (liquid line) / 80 bar (suction)

OPTIONS ON REQUEST

- Water cooled gas cooler
- Adiabatic system (suggested for ambient temperatures > +35 °C)

Unità di refrigerazione a CO_2 per applicativi di Media Temperatura
Sistemi transcritici ad espansione diretta
Capacità frigorifera da 0,6 a 8,5 kW.
Modello UMT T MTDX.
Presto disponibili le unità per applicativi di bassa temperatura.

CO_2-Kälteanlage für die Anwendung im mittleren Verdampfungstemperaturbereich
Transkritisches System DX
Kälteleistung von 0,6 kW bis 8,5 kW.
Modell UMT T MTDX.
In Kürze erhältlich für die Anwendung im tiefen Verdampfungstemperaturbereich.

CUBO2 smart | PRELIMINARY DATA

MODEL	COMPRESSOR	Qo - COOLING CAPACITY [W] - at max speed				
	Type	at Tamb. + 32 °C	Tev [°C] - 15 °C	Tev [°C] - 10 °C	Tev [°C] - 5 °C	Tev [°C] 0 °C	Tev [°C] + 5 °C
UMT T 030 MTDX	DY30	Qo (W)	2181	2548	2939	3362	3826
		Pel (W)	1419	1444	1456	1452	1430
		Qc (W)	3599	3992	4394	4814	5256
		COP	1,54	1,76	2,02	2,32	2,68
		MEPS	1,76	1,76	1,76	1,76	1,76
		V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
UMT T 045 MTDX	DY45	Qo (W)	3293	3847	4437	5077	5778
		Pel (W)	2142	2180	2198	2192	2159
		Qc (W)	5435	6027	6635	7269	7937
		COP	1,54	1,76	2,02	2,32	2,68
		MEPS	1,76	1,76	1,76	1,76	1,76
		V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
UMT T 067 MTDX	DY67	Qo (W)	4722	5502	6359	7280	8251
		Pel (W)	3090	3174	3234	3272	3285
		Qc (W)	7812	8675	9593	10552	11535
		COP	1,53	1,73	1,97	2,23	2,51
		MEPS	3,44	3,44	3,44	3,44	3,44
		V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
UMT T 100 MTDX	DY100	Qo (W)	7047	8211	9491	10866	-
		Pel (W)	4612	4737	4827	4827	-
		Qc (W)	11659	12948	14319	15693	-
		COP	1,53	1,73	1,97	2,25	-
		MEPS	3,45	3,45	3,45	3,45	-
		V/Ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	-

ALL MODELS

CO_2 Systems for MT applications
Transcritical condensing units DX
Cooling Capacity from 0,6 up to 8,5 kW.
Model UMT T MTDX.
Soon available with LT application range.

Unités CO_2 pour applications moyenne température
Groupes de condensation transcritiques à détente directe
Puissance froid de 0,6 à 8,5 kW.
Modèle UMT T MTDX.
Applications basse température bientôt disponible.

ELECTRICAL DATA		DIMENSIONS				WEIGHT	LIQUID RECEIVER	REFRIGERANT CONNECTIONS		SOUND PRESSURE
MRA	P max	A	B	H	PED CAT.			Suction	Liquid	
[A]	[W]	[mm]	[mm]	[mm]	[-]	[Kg]	[Lt]	[inch]		[dB(A)] (2)
14,5	3300	1080	560	803	I	150	2 x 2,4	3/8″	3/8″	38
20,2	4650	1080	560	803	I	150	2 x 2,4	3/8″	3/8″	38
28,7	6630	1080	560	803	I	150	2 x 2,4	3/8″	3/8″	38
18,3	12700	1080	560	803	I	150	2 x 2,4	1/2″	3/8″	38

Inverter modulation from 25 to 100% (1500 --> 6000 rpm)

Note 1: Preliminary Data with suction superheat 5K (useful 100%); sub cooling 0K.
Note 2: sound pressure and sound power analytically calculated. Sound pressure level at 10 m in free field.

made by
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