

SUSTAINABLE COLD SOLUTIONS
CO₂ TRANSCRITICAL RACKS

SMART BOOSTER

We know the art of achieving
a perfect temperature

BEIJER REF



**ECO-FRIENDLY
SOLUTION**



**COMPACT
DESIGN**

**ENHANCED
CAPACITY**

**MINIMAL
MAINTENANCE**



**ENERGY
EFFICIENCY**



**RELIABLE
PERFORMANCE**

**SCALABLE
AND
VERSATILE**

**FUTURE-PROOF
INVESTMENT**



TECHNOLOGY

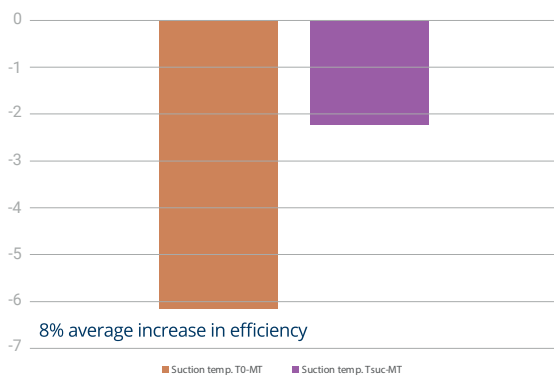
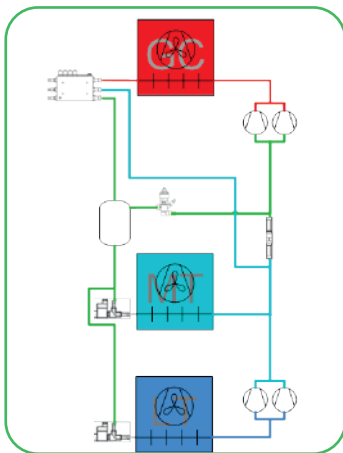
- Electronic oil level regulator Traxoil in each compressor
- Electronic controller
- Replaceable oil filter dryer
- Maintenance free oil separator with integrated oil reservoir
- Electronic minimum liquid level switch
- Liquid-Flash internal heat exchanger
- Discharge manifold connected to safety valves
- Full factory testing and parameters setting
- PS 120/80/60/60

OPTIONS

- Controller Carel, Wurm, RDM, Danfoss
- Frequency inverter MT / LT
- PS 120/80/80/80
- Heat Recovery
- Energy metter
- Low noise, enclosure + ultra low noise
- PNC frame with integrated gas cooler
- LP ejector
- Backup controller
- V3V by pass gas cooler
- Suction filter strainer LT/MT
- Liquid filter dryer

HIGH EFFICIENCY

LP EJECTOR



Source: CO₂ Booster with LP Ejector (Punta Cana – Repubblica Dominicana)

LSPM MOTOR



BITZER COMPRESSORS LSPM (line start permanent magnet)

The line-start permanent magnet (LSPM) motor technology take advantage of the motor efficiency and low heat input into the refrigerant, estimating 14% annual savings when compared with standard compressors.

DANFOSS MULTI EJECTOR LP (LOW PRESSURE)

In warm climates, the ejectors can lift all the gas from the evaporators into the receiver, witch is at a higher suction pressure than the evaporator and this is lowering the system energy consumption. In cold ambient conditions, the LP ejector serves the same functions as a coventional high-pressure valve controlling the system to perform at optimum COP.


DIMENSIONAL DATA

UNIT MODEL*	Q ₀ MT**	Q ₀ LT***	Q _{GC}	I _{MAX}
	kW	kW	kW	A
MWS 2x043 MTDX	15,70	-	27	21,6
MWS 065+043 MTDX	20,90	-	34	26,8
MWS 2x065 MTDX	26,00	-	42	32,0
MWS 096+065 MTDX	32,30	-	52	38,4
MWS 2x096 MTDX	38,60	-	62	44,8
MWS 096+2x065 MTDX	45,30	-	73	54,4
MWS 2x096+065 MTDX	51,60	-	83	60,8
MWS 3x096 MTDX	57,90	-	93	67,2
MWS 120+2x096 MTDX	63,90	-	102	71,9
MWS 3x120 MTDX	75,90	-	120	81,3
MWS 2x043 MTDX + UMCE 007 HBT	11,90	3,30	27	24,5
MWS 065+043 MTDX + UMCE 007 HBT	17,00	3,30	35	29,7
MWS 2x065 MTDX + UMCE 007 HBT	22,20	3,30	43	34,9
MWS 2x065 MTDX + UMCE 010 HBT	19,70	5,40	43	35,7
MWS 096+065 MTDX + UMCE 010 HBT	25,90	5,40	53	42,1
MWS 2x096 MTDX + UMCE 010 HBT	32,20	5,40	63	48,5
MWS 2x096 MTDX + UMCE 020 HBT	30,50	6,90	63	50,1
MWS 2x096 + 065 MTDX + UMCE 020 HBT	43,50	6,90	84	66,1
MWS 3x096 MTDX + UMCE 020 HBT	49,80	6,90	94	72,5
MWS 2x096+065 MTDX + UMCE 030 HBT	41,20	8,90	84	67,0
MWS 3x096 MTDX + UMCE 030 HBT	47,50	8,90	94	73,4
MWS 3x120 MTDX + UMCE 030 HBT	65,50	8,90	122	87,5
MWS 096+065 MTDX + UMCE 2x007 HBT	24,60	6,50	53	44,2
MWS 2x096 MTDX + UMCE 2x007 HBT	30,90	6,5	63	50,6
MWS 2x120 MTDX + UMCE 2x007 HBT	42,90	6,5	81	60,0
MWS120+2x096 MTDX+UMCE020+030HBT	45,40	15,80	104	83,4
MWS3x120MTDX+UMCE020+030HBT	57,40	15,80	122	92,8

DIMENSIONAL DATA

LRA	P _{MAX}	LIQUID RECEIVER VOLUME	WEIGHT	SOUND PRESSURE @10m***	PNC AVAILABLE
A	kW	dm ³	kg	dB(A)	
124,4	11.8	105	535	45	YES
144,6	14.5	105	540	45	YES
164,8	17.2	105	545	45	YES
179,4	21.5	105	550	46	YES
194,0	25.8	105	555	46	YES
261,8	30.1	105	690	47	YES
276,4	34.4	105	700	47	YES
291,0	38.7	105	710	48	YES
326,0	42	150	777	52	
396,0	48.6	150	911	56	
150,4	12.9	105	650	46	YES
170,6	15.6	105	655	46	YES
190,8	18.3	105	660	46	YES
190,8	19,1	105	662	46	YES
205,4	23.4	105	667	47	YES
220,0	27.7	105	670	47	YES
231,0	28.3	105	675	47	YES
313,4	36.9	105	845	48	YES
328,0	41.2	105	850	49	YES
320,4	37.5	105	853	49	YES
335,0	41.8	105	857	49	YES
440,0	51.7	105	1043	56	
231,4	23.7	105	805	47	YES
246,0	28.0	105	810	48	YES
316,0	34.6	105	940	54	YES
407,0	47.6	150	1100	53	
477,0	54.2	150	1235	56	

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