



SMART BOOSTER 2.0



ECO-FRIENDLY SOLUTION	ENHANCED CAPACITY	COMPACT DESIGN
ENERGY EFFICIENCY	SCALABLE AND VERSATILE	RELIABLE PERFORMANCE
FUTURE-PROOF INVESTMENT	MINIMAL MAINTENANCE	

PRELIMINARY DRAFT

Introducing the next-generation of SMART BOOSTER: **UNMATCHED CAPACITY FOR A SUSTAINABLE FUTURE**

TECHNOLOGY

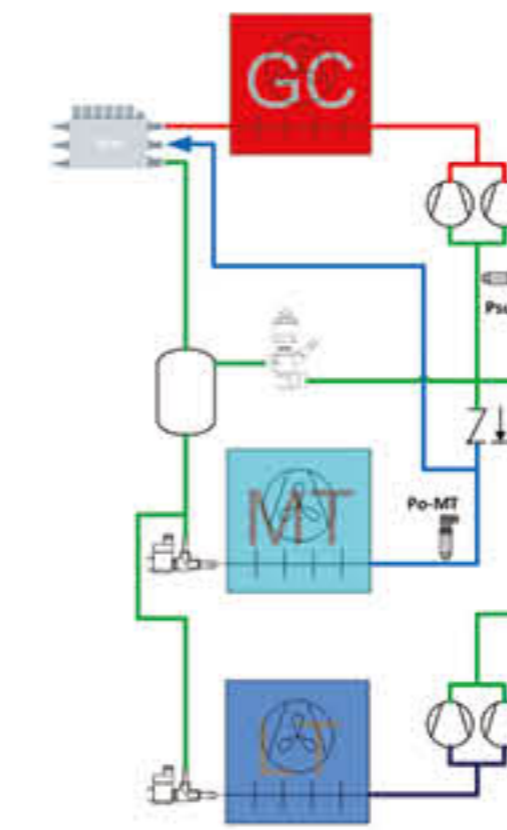
- Electronic oil level regulator Traxoil in each compressor
- Controller Danfoss AKPC772
- Replaceable oil filter dryer
- Maintenance free oil separator with integrated oil reservoir
- Electronic minimum liquid level switch
- Liquid-Flash internal heat exchanger
- Discharge Manifold connected to safety valves
- Full factory testing and parameters setting

OPTIONS

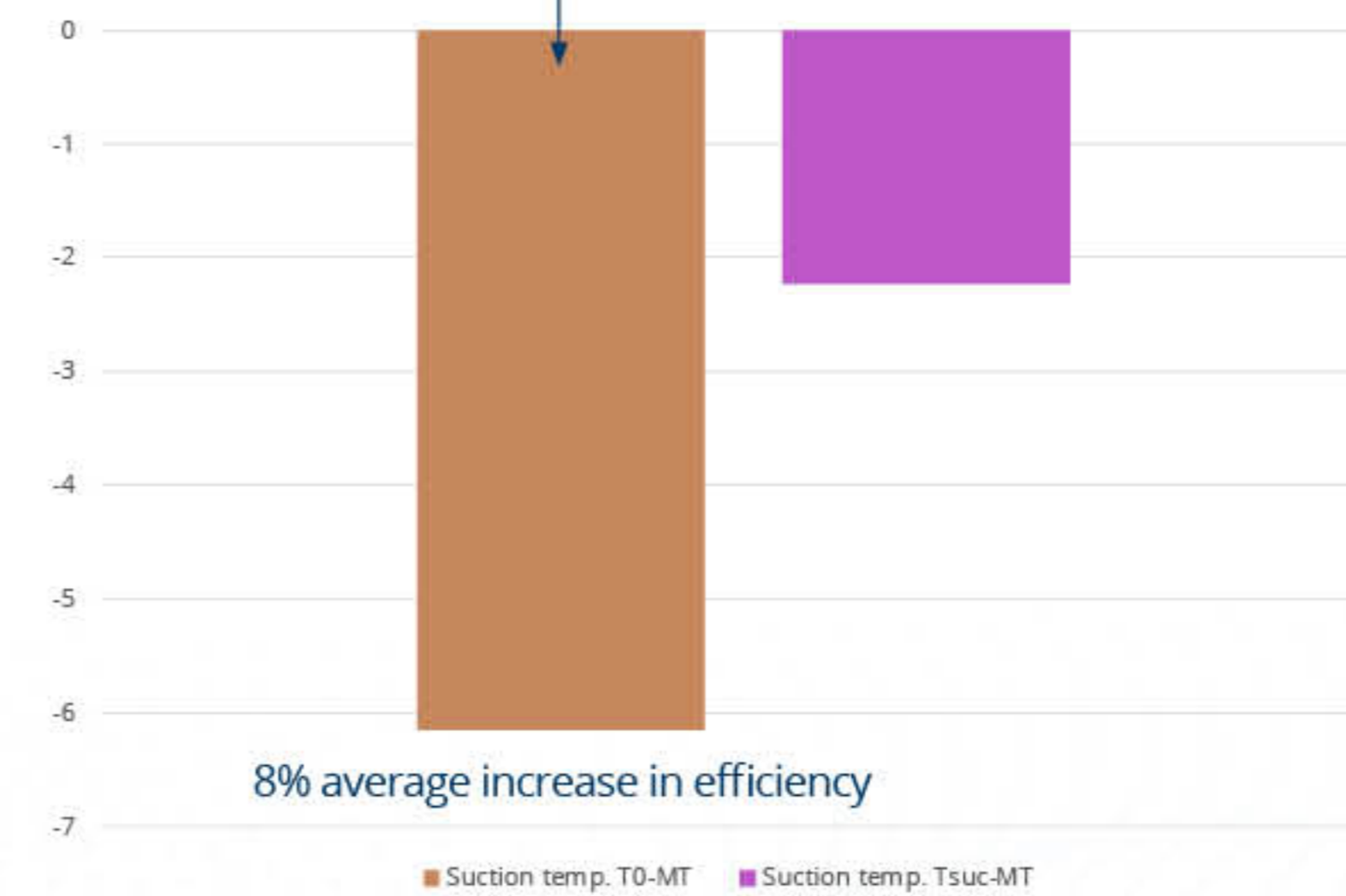
- Frequency Inverter LT 30-70 HZ
- Heat Recovery + 3-way Valve
- Low noise enclosure
- Standard enclosure for outdoor installation
- Energy Meter
- CAREL controller, HP-MP valves
- Danfoss LP ejector - 150 L receiver
- MT / LT Suction filter
- Liquid filter dryer supplied spare
- WURM Controller
- Carel controller, HP-MP valve
- Controller Danfoss AKPC772, 782
- RDM Controller

HIGH EFFICIENCY

LP EJECTOR



LSPM MOTOR



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

Danfoss Multi Ejector LP (Low Pressure)

In warm climates, the ejectors can lift all the gas from the evaporators into the receiver, which 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 conventional high-pressure valve controlling the system to perform at optimum COP.

Bitzer Compressors LSPM (line start permanent magnet)

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

PRELIMINARY DATA

Unit Model	Qo MT *	Qo LT**	Qgc	Imax	LRA	Pmax	Liquid Receiver	Weight	Sound Pressure @10m***	PNC
	kW	kW	kW	A	A	kW	dm3	kg	dB(A)	
MWS 2x043 MTDX	15,70	-	27	21,6	124,4	11,8	105	535	45	✓
MWS 065+043 MTDX	20,90	-	35	26,8	144,6	14,5	105	540	45	✓
MWS 2x065 MTDX	26,00	-	43	32,0	164,8	17,2	105	545	45	✓
MWS 096+065 MTDX	32,30	-	53	38,4	179,4	21,5	105	550	46	✓
MWS 2x096 MTDX	38,60	-	63	44,8	194,0	25,8	105	555	46	✓
MWS 096+2x065 MTDX	45,30	-	74	54,4	261,8	30,1	105	690	47	✓
MWS 2x096+065 MTDX	51,60	-	84	60,8	276,4	34,4	105	700	47	✓
MWS 3x096 MTDX	57,90	-	94	67,2	291,0	38,7	105	710	48	✓
MWS 120+2x096MTDX	63,90	-	103	71,9	326,0	42,0	150	777	52	
MWS 3x120MTDX	75,90	-	121	81,3	396,0	48,6	150	911	56	
MWS 2x043 MTDX + UMCE 007 HBT	11,90	3,30	27	24,5	150,4	12,9	105	650	46	✓
MWS 065+043 MTDX + UMCE 007 HBT	17,00	3,30	35	29,7	170,6	15,6	105	655	46	✓
MWS 2x065 MTDX + UMCE 007 HBT	22,20	3,30	43	34,9	190,8	18,3	105	660	46	✓
MWS 2x065 MTDX + UMCE 010 HBT	19,70	5,40	43	35,7	190,8	19,1	105	662	46	✓
MWS 096+065 MTDX + UMCE 010 HBT	25,90	5,40	53	42,1	205,4	23,4	105	667	47	✓
MWS 2x096 MTDX + UMCE 010 HBT	32,20	5,40	63	48,5	220,0	27,7	105	670	47	✓
MWS 2x096 MTDX + UMCE 020 HBT	30,50	6,90	63	50,1	231,0	28,3	105	675	47	✓
MWS 2x096+065 MTDX + UMCE 020 HBT	43,50	6,90	84	66,1	313,4	36,9	105	845	48	✓
MWS 3x096 MTDX + UMCE 020 HBT	49,80	6,90	94	72,5	328,0	41,2	105	850	49	✓
MWS 2x096+065 MTDX + UMCE 030 HBT	41,20	8,90	84	67,0	320,4	37,5	105	853	49	✓
MWS 3x096 MTDX+ UMCE 030 HBT	47,50	8,90	94	73,4	335,0	41,8	105	857	49	✓
MWS 3x120 MTDX+UMCE 030 HBT	65,50	8,90	122	87,5	440,0	51,7	105	1043	56	
MWS 096+065 MTDX+ UMCE 2x007 HBT	24,60	6,50	53	44,2	231,4	23,7	105	805	47	✓
MWS 2x096 MTDX+ UMCE 2x007 HBT	30,90	6,5	63	50,6	246,0	28,0	105	810	48	✓
MWS 2x120 MTDX + UMCE 2x007 HBT	42,90	6,5	81	60,0	316,0	34,6	105	940	54	✓
MWS120+2x096MTDX+UMCE020+030HBT	45,40	15,80	104	83,4	407,0	47,6	150	1100	53	
MWS3x120MTDX+UMCE020+030HBT	57,40	15,80	122	92,8	477,0	54,2	150	1235	56	

*Calculated @ -8°C SST, 35°C ambient temperature, 37°C gas cooler outlet temperature

**Calculated @ -30°C SST

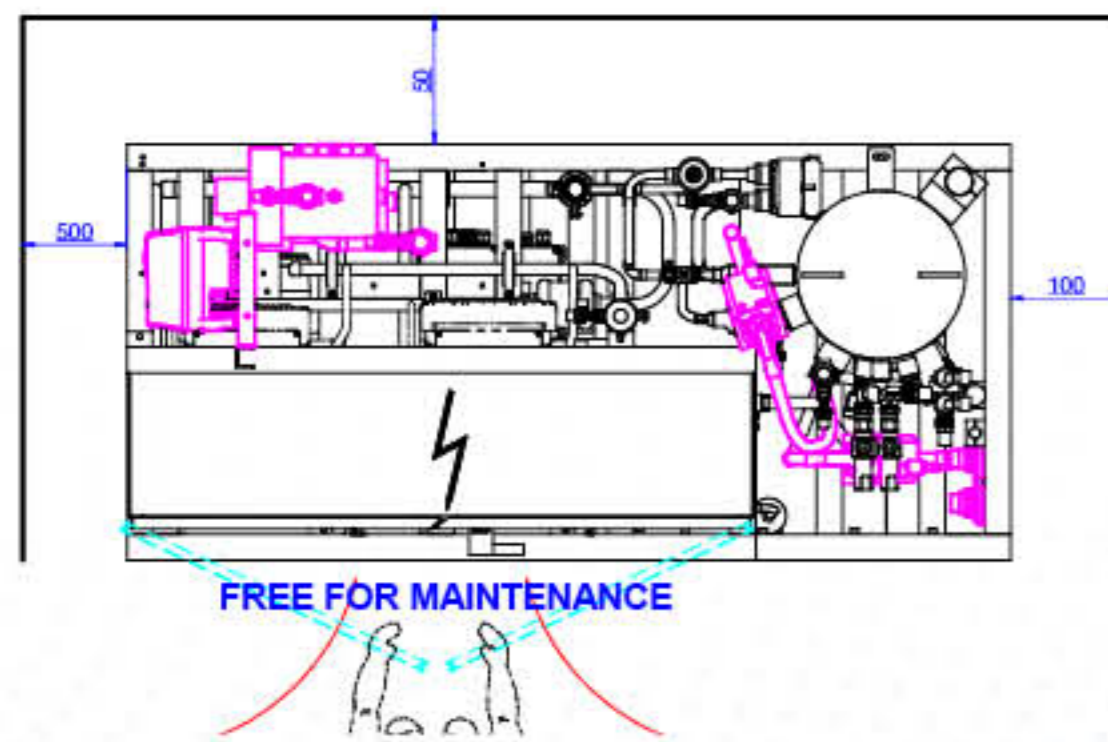
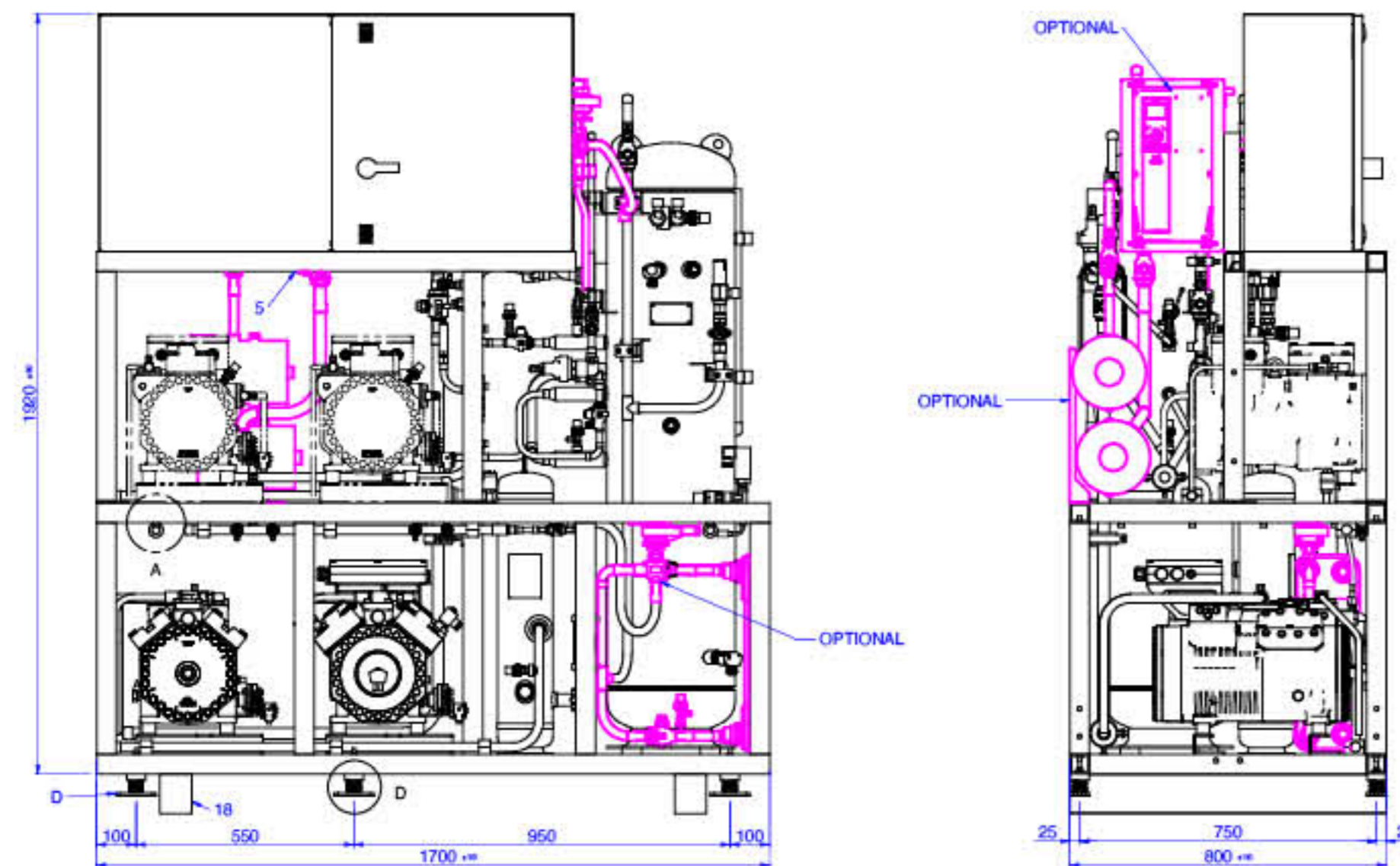
***Data are valid for free field conditions with a block-shaped reference area in a distance of 10m.

PRELIMINARY DRAFT

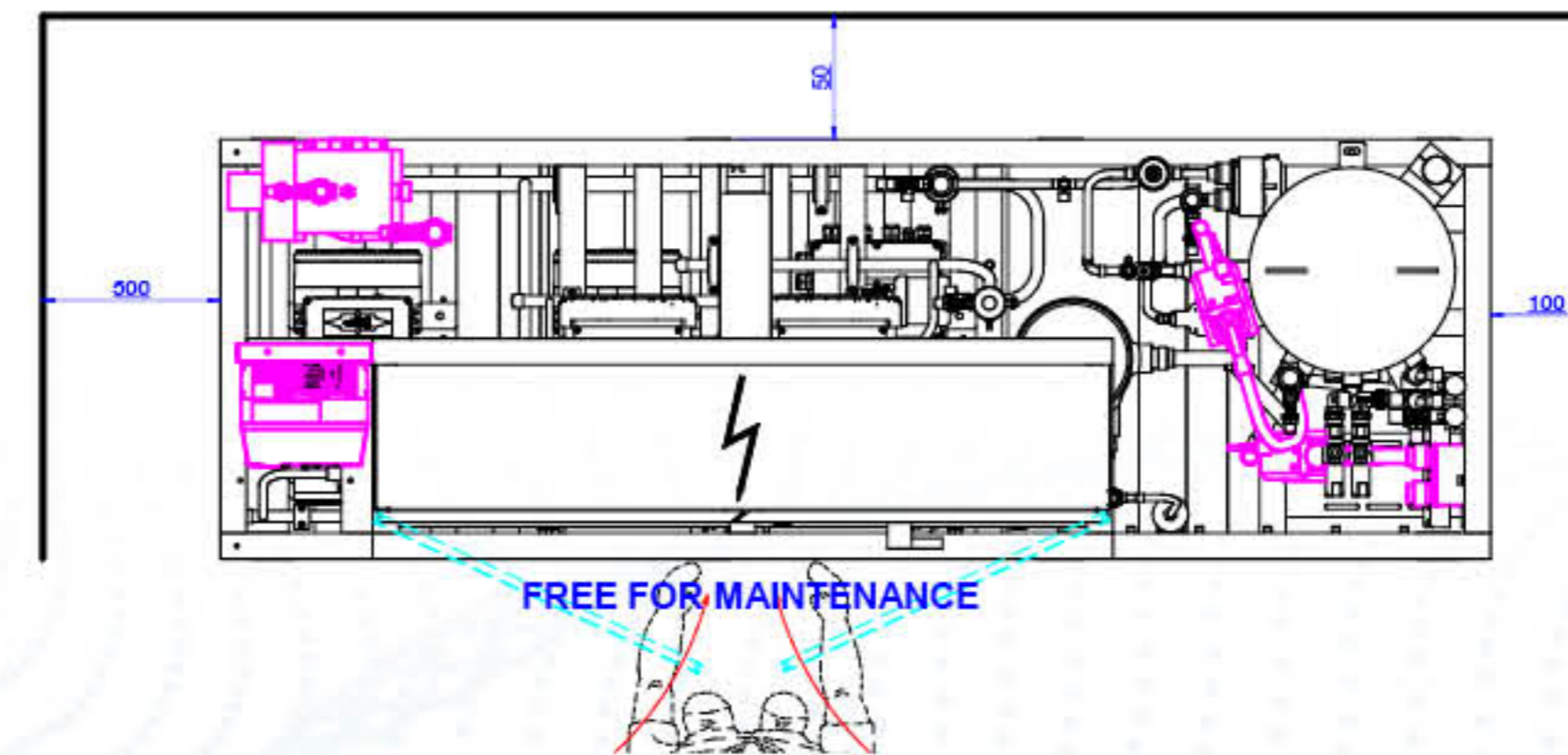
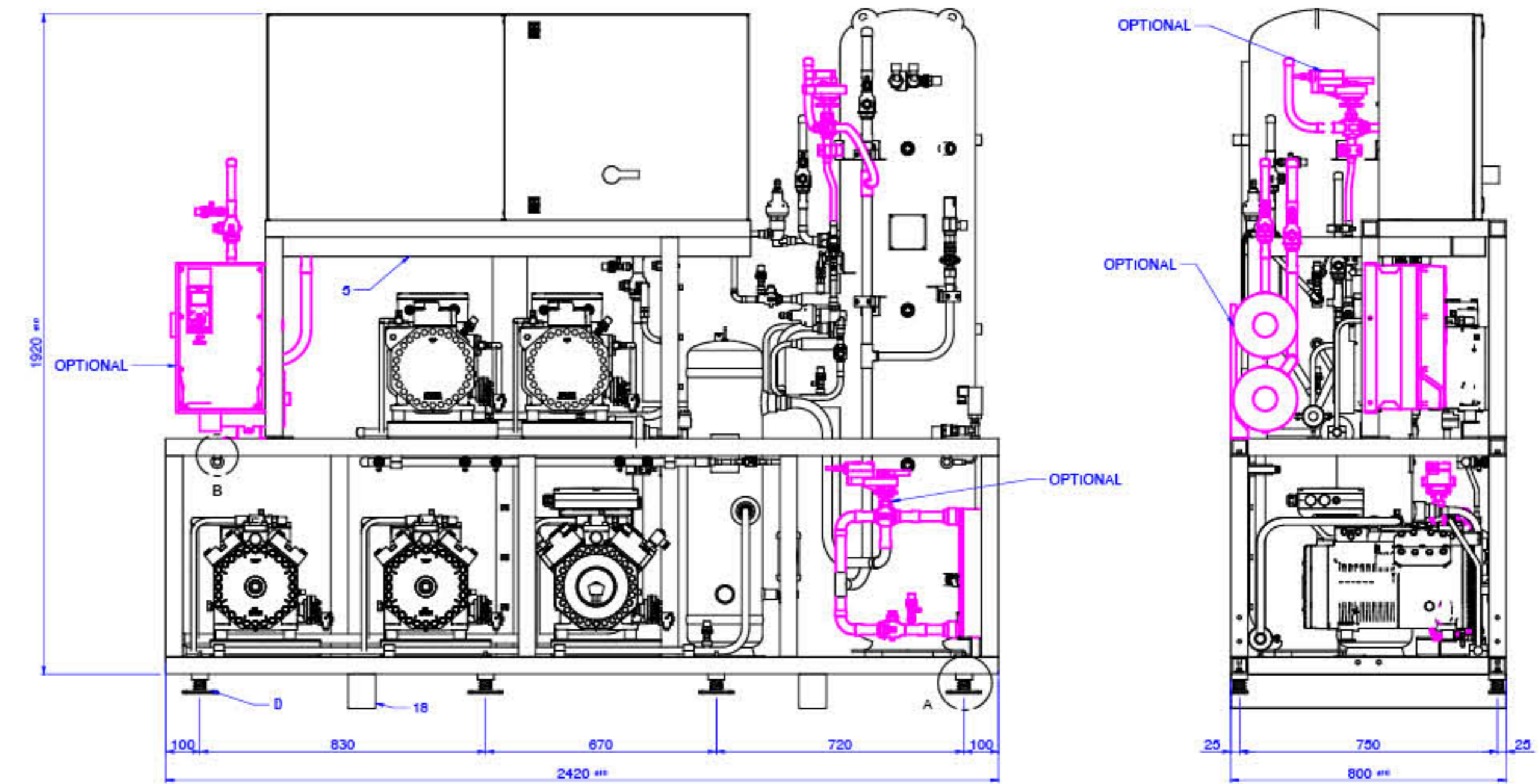


DIMENSIONS

SMALL



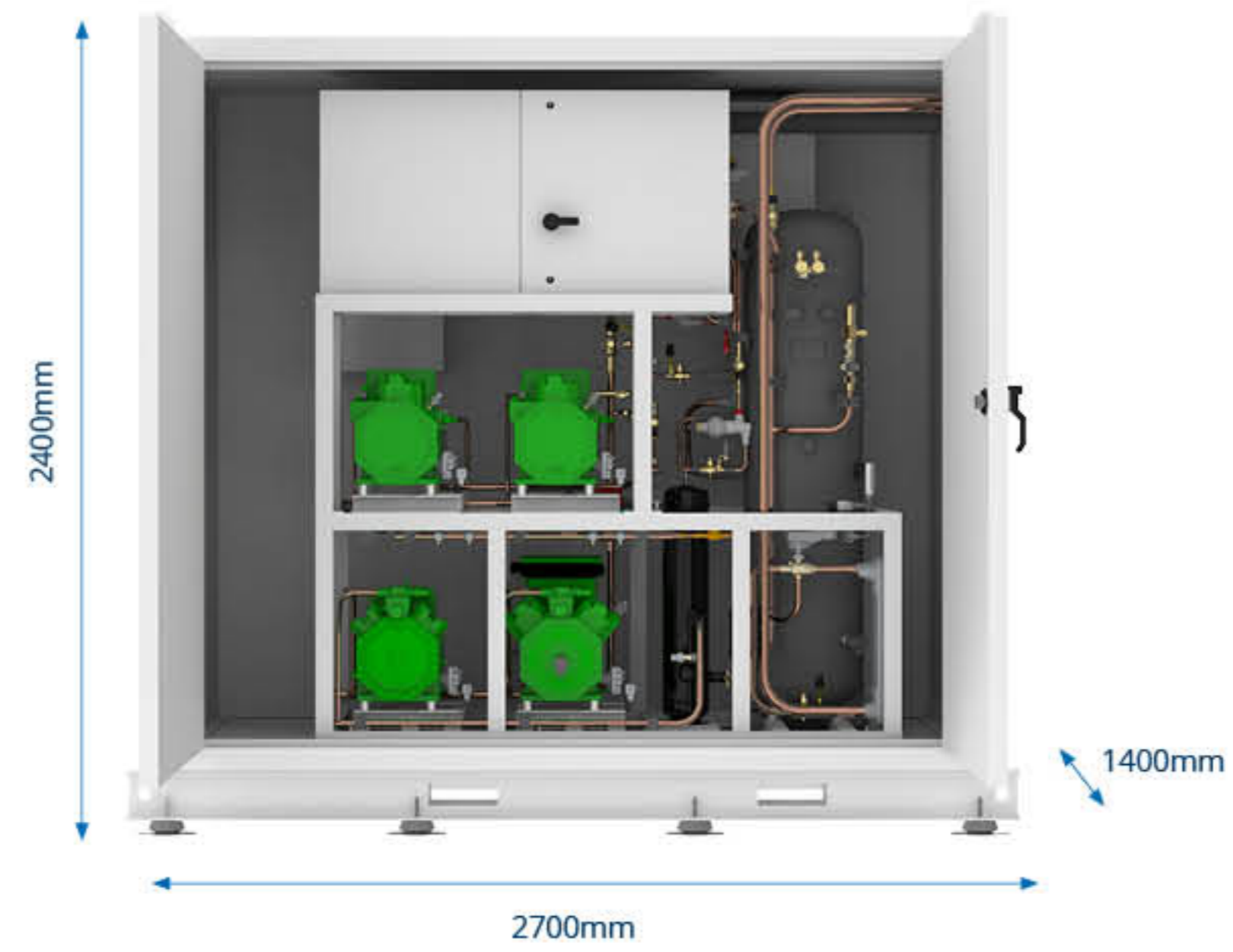
LARGE



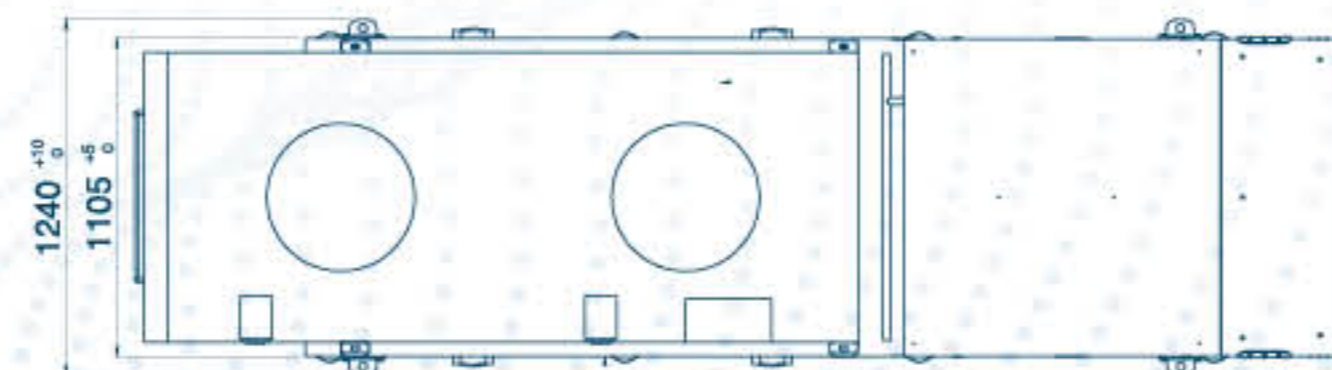
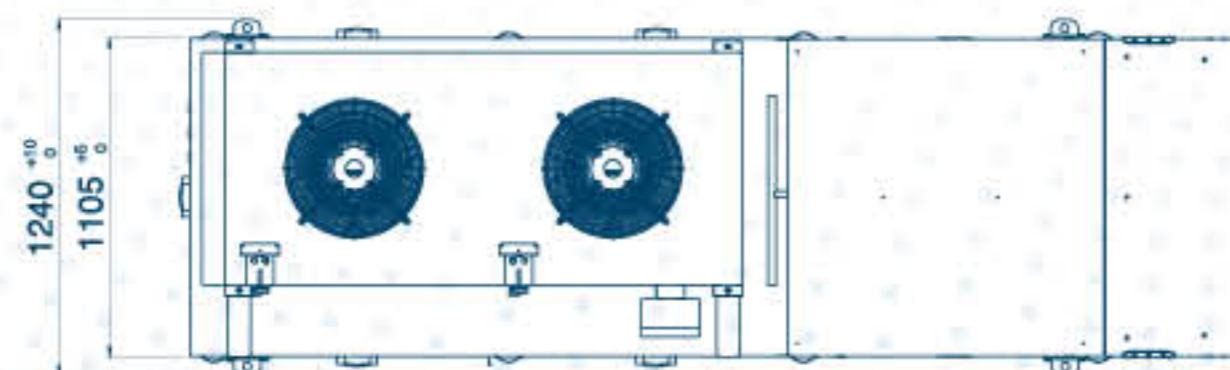
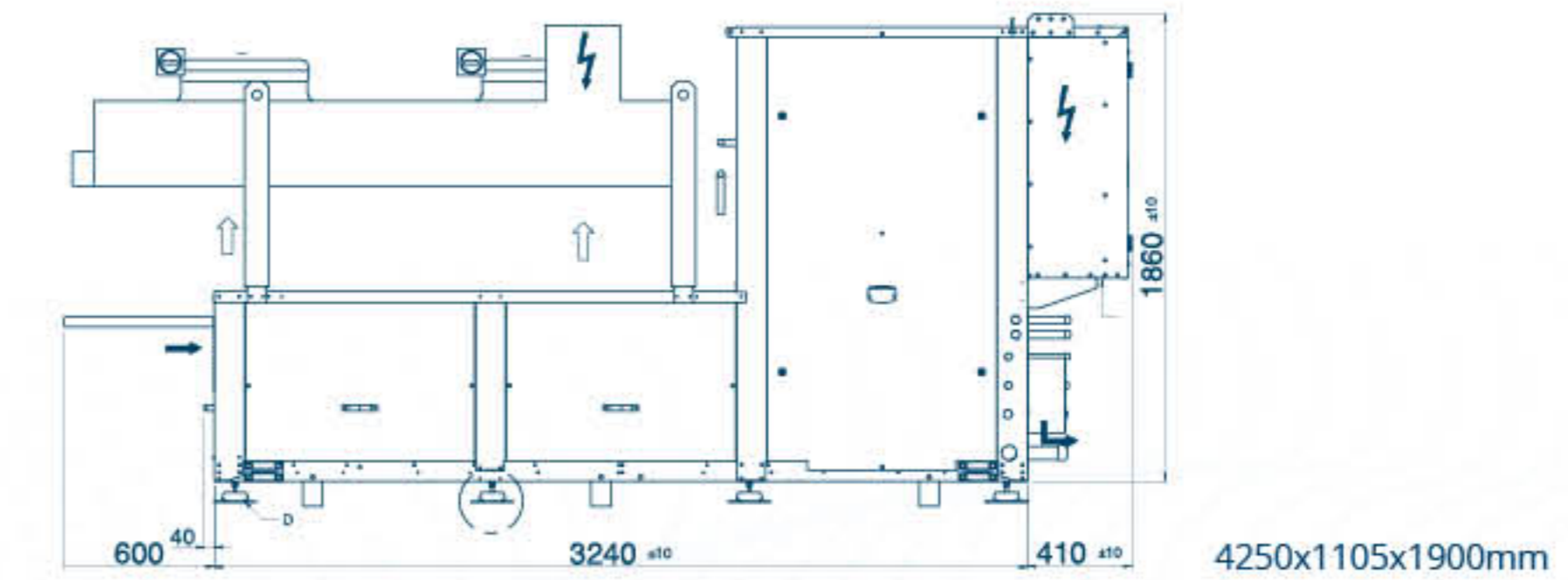
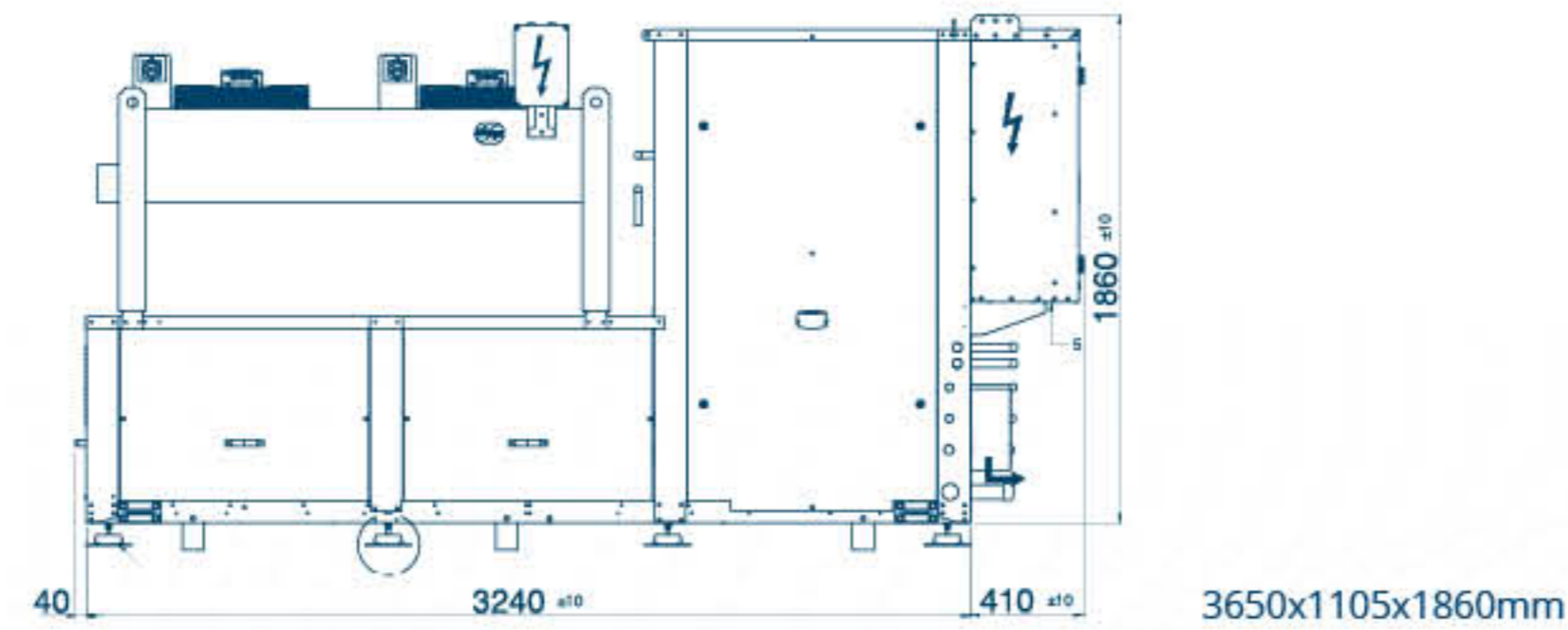
PRELIMINARY DRAFT

DIMENSIONS HOUSED

LOW NOISE



PNC



PRELIMINARY DRAFT

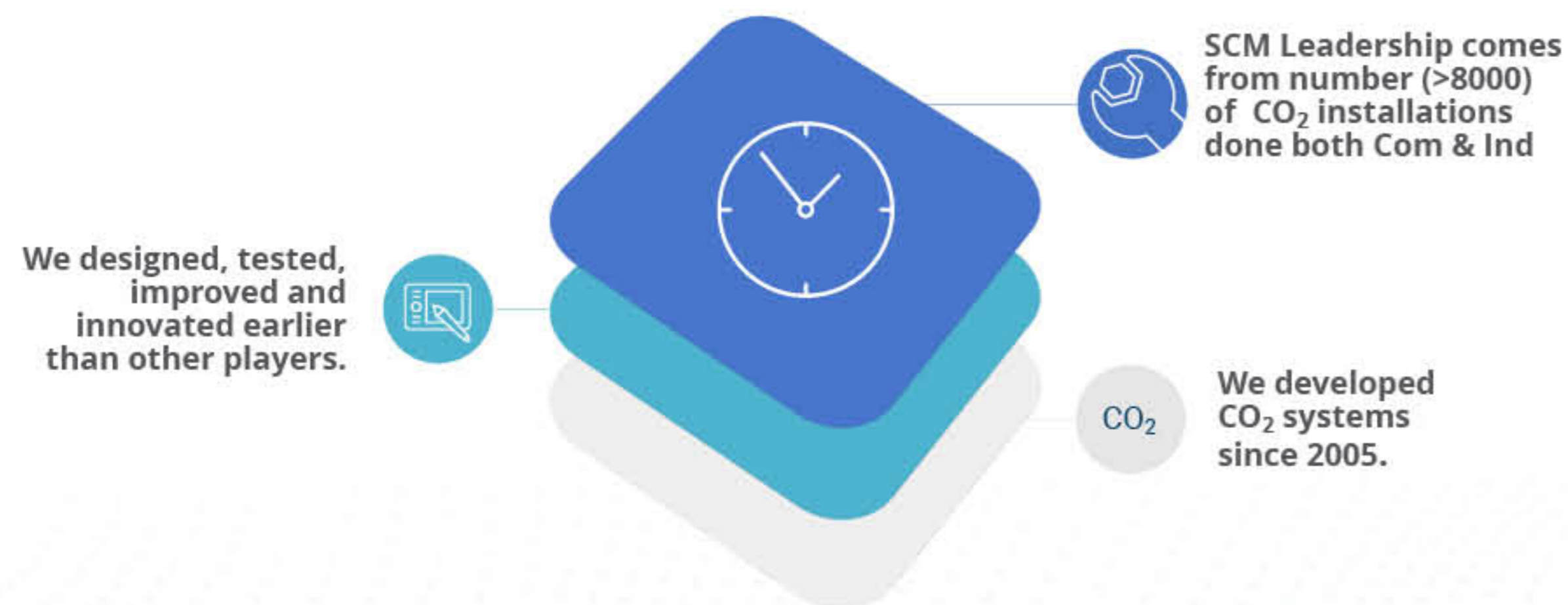
ABOUT SCM FRIGO

According to SCM Natural Choice, we have developed a range of CO₂ transcritical racks with a very low carbon footprint and lower energy consumption than the traditional HFC solutions.

COMPLIANCE WITH REGULATIONS

Our CO₂ refrigeration system complies with the latest environmental regulations and guideline.

CO₂ TIME ADVANTAGE



IMPROVED BRAND REPUTATION

By adopting an eco-friendly and energy-efficient refrigeration system, you showcase your commitment to sustainability and environmental responsibility.

COMFORT ZONE



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