

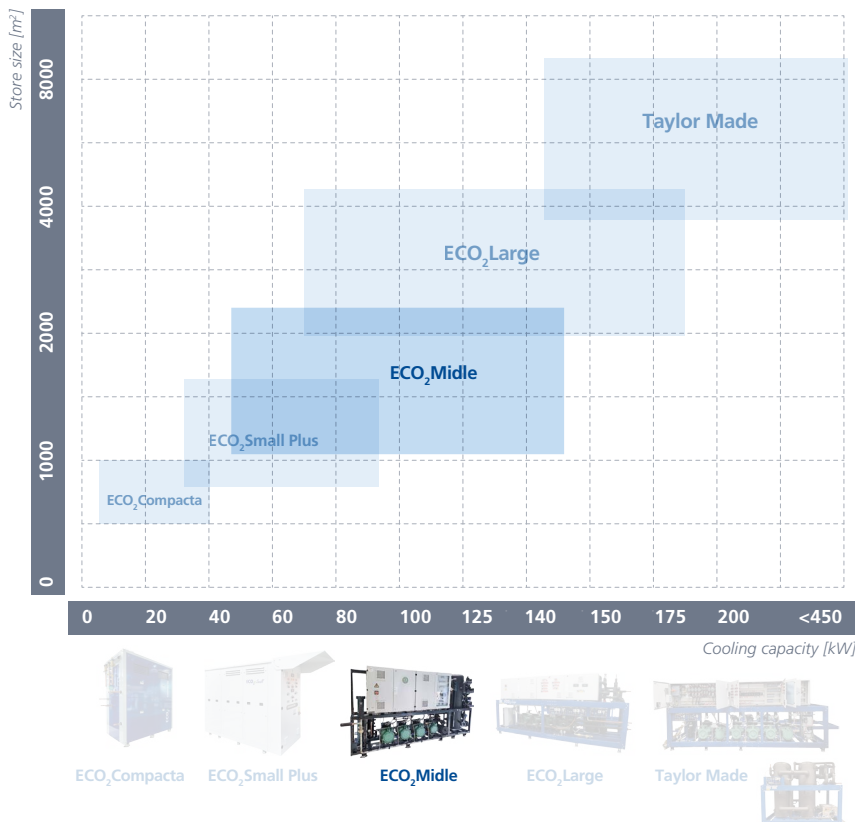
ECO₂ MIDDLE

MT from 60 to 150 [kW]

LT from 0 to 50 [kW]



Range of Power Packs CO₂



- CO₂ transcritical unit.
- Very compact product
- Modular design for manutention and complex installation.
- Booster BLTand MT.
- High pressure oil solution from EPTA.
- **ETE** and **FTE** performing systems available on this platform
- Easy maintenance concept

Technical Information

Compressors BITZER	MT3 + LT3	MT4 + LT3
Number of MT compressor	max 3	max 4
Number of LT compressor	max 3	max 3
Number of ETE compressor	max 1 (total MT+ETE = maxi 3)	max 1 (total MT+ETE = maxi 4)
Smallest MT compressor	4PTE-7K	
Biggest MT compressor	4DTE-25K	
Smallest LT compressor	2MSL-07K	
Biggest LT compressor	2DSL-5K	
Smallest ETE compressor	4PTE-7K	
Biggest ETE compressor	4HTE-20K	

General		
Power supply	3P+T400 V (50Hz)	
Short-circuit current (kA)	35 kA (standard)	
Max weight	1450 kg	1750 kg
Liquid receiver volume	165 l /200 l	165/200/2*165 l
Estimated sound pressure level (max)	59 dB(A)@10m	60 dB(A)@10m
Sound power level (-10°C/90 bar)	86,8 dB(A)	88 dB(A)
Installation	Indoor version	

Pressure service	
High pressure	120 bar
Suction MT	45/53/60 bar
Suction LT	30/60 bar
Suction ETE	100 bar
Suction Liquid line	45/53/60 bar
Oil circuit	120 bar

Components and options

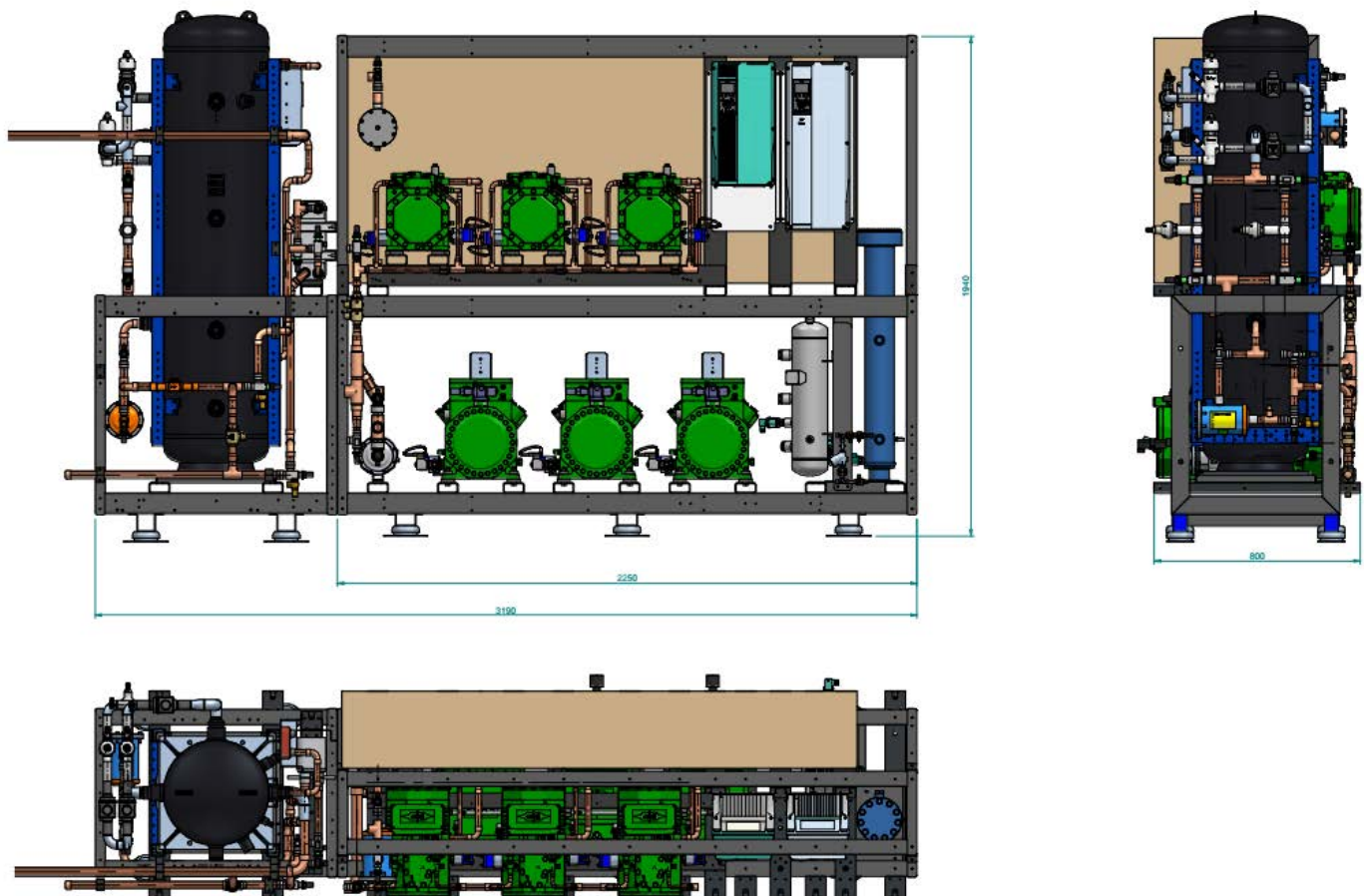
ACCESSORIES	BASIC	OPTIONAL
SECURITY PACK		
Double flash gas valve (1 back-up)		•
Double transcritical valve (1 back-up)		•
Back-up regulator		on request
ULTRACAP or UPS integrated		on request
UPS predisposition	•	
Liquid injection MT	•	
Hot gas injection MT	•	
Hot gas injection LT	•	
Safety valve on manifold		on request
Double safety valves with 3 way valve	•	
Alarm liquid level		•
Air desuperheater for LT outlet		•
By-pass for desuperheater LT	•	
Electrical board for air desuperheater		•
Back-up R744 unit onboard		•
MAINTENANCE PACK		
Filter suction MT with by-pass	•	
Filter suction LT with by-pass	•	
Filter on oil line	•	
Liquid line with dryer repacable cartridge	•	
By-pass oil separator		•
By-pass liquid line	•	
Predisposition for ICE SMART		•
PERFORMANCE PACK		
CR II IQ module		•
Inverter MT/LT	•	
ETE remote		•
FTE remote		•
LSPM motor on 1st MT compressor		•

ACCESSORIES	BASIC	OPTIONAL
ELECTRICAL PANEL		
Differential protection		•
Emergency push button		•
Electrical counter		•
Display		•
SWITCH ON PACK predisposition	•	
Inverter MT / inverter LT 1st compressor	•	
DANFOSS regulator	•	
CAREL regulator	•	
WURM regulator		on request
MECHANICAL		
Housing		on request
Noise insulation on housing.		on request
Feet with absorbers feet.	•	
EXCHANGERS		
Exchanger for heat recovery remote		•
Economizer (exchanger out GC / flash gas)		on request
PHX Auto subcooler: liquid line suction LT		•
Subcooler outlet gas cooler exchanger		on request

Dimensions

*MT3 + LT3 With liquid receiver 165 liters: 3200*800*H 1990 mm*

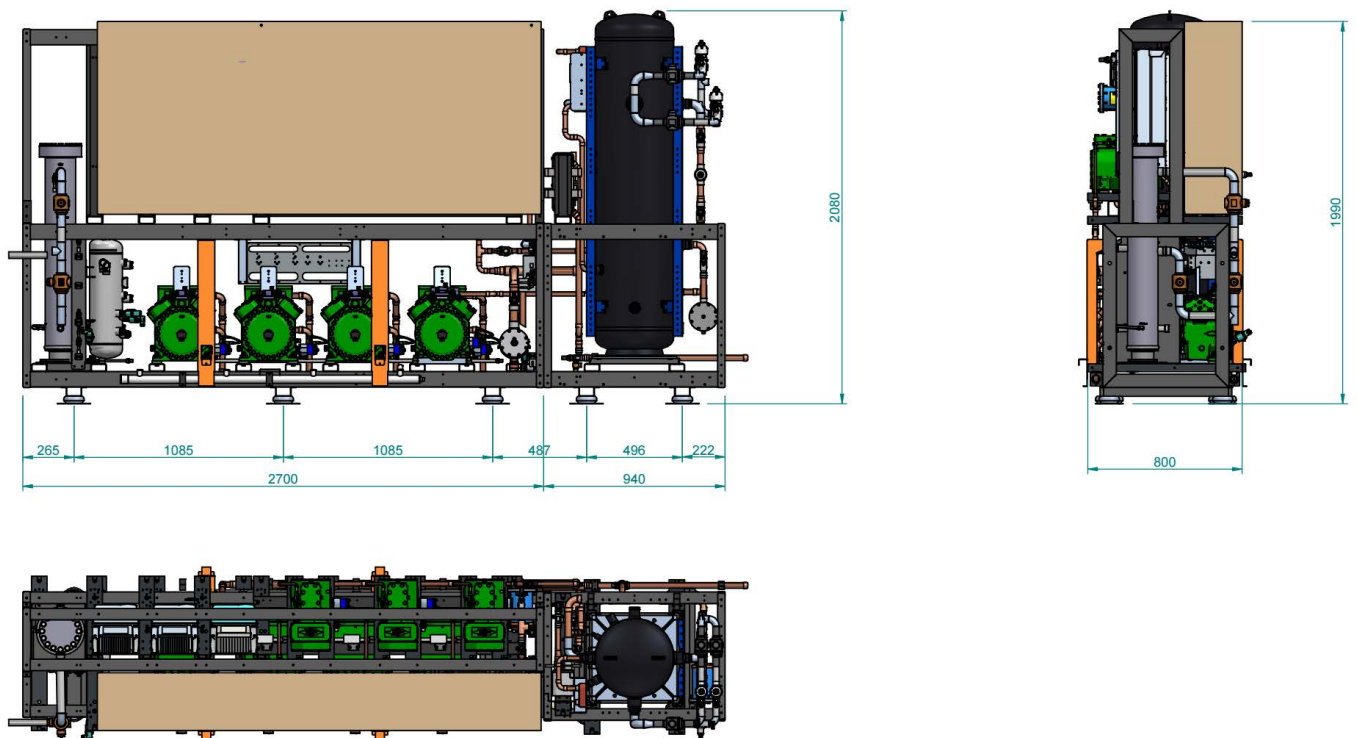
*MT3 + LT3 With liquid receiver 200 liters: 3200*800*H 2080 mm*



Dimensions

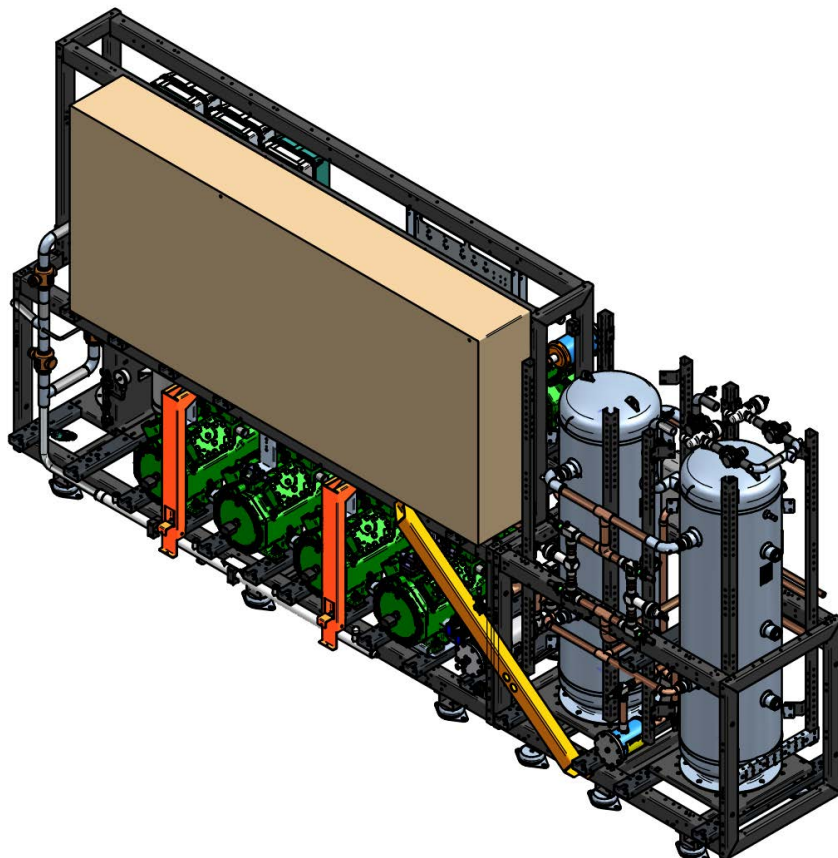
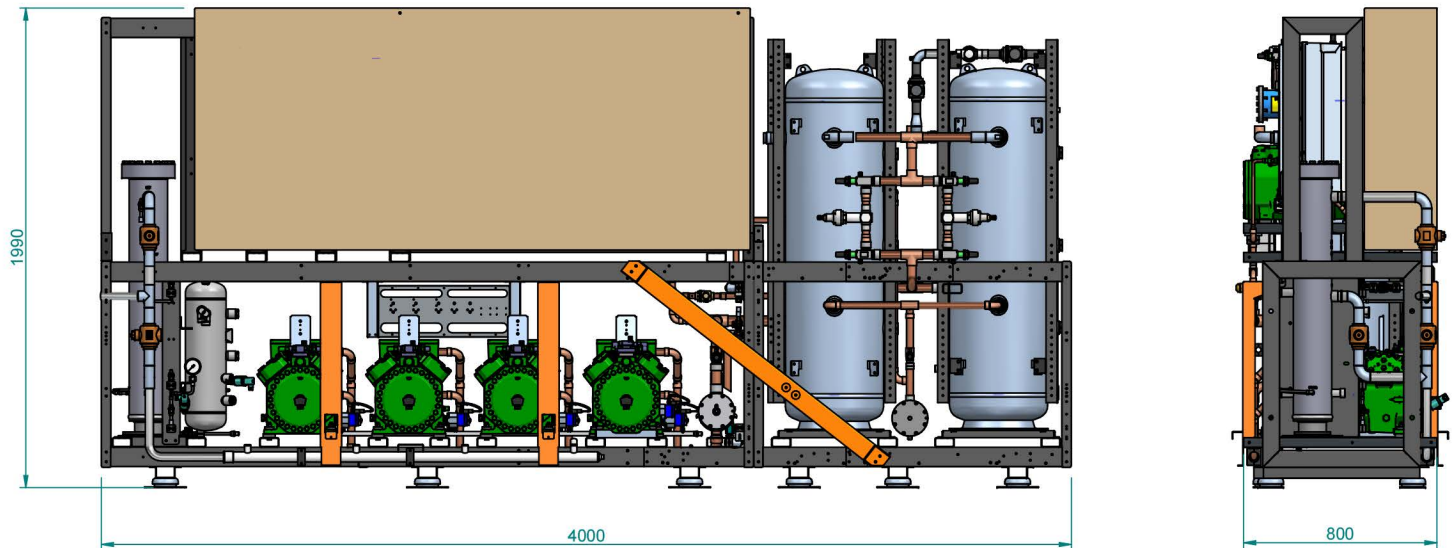
*MT4 + LT3 With liquid receiver 165 liters: 3640*800*H 1990 mm*

*MT4 + LT3 With liquid receiver 200 liters: 3640*800*H 2080 mm*



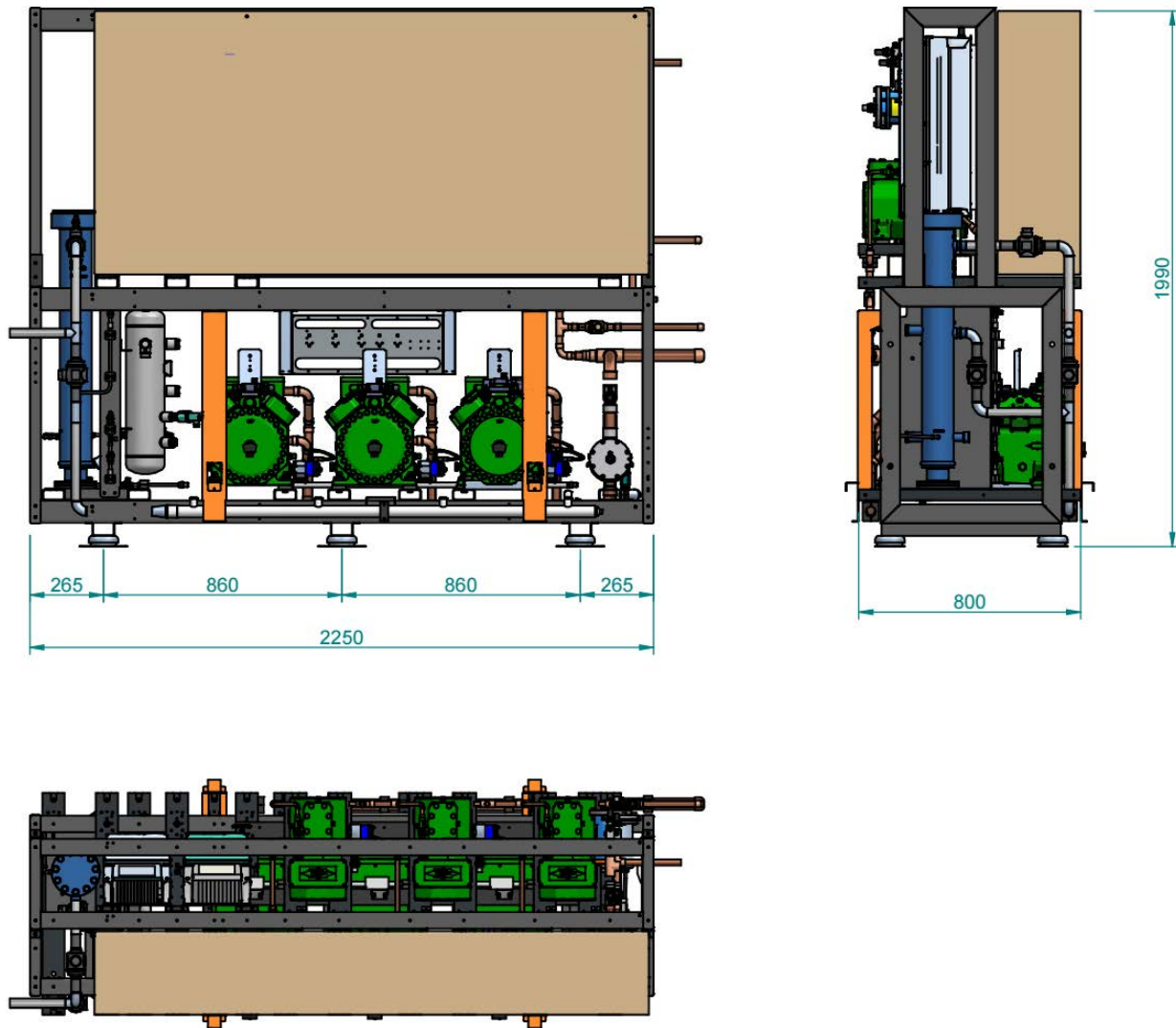
Dimensions

MT4 + LT3 With 2* liquid receiver 165 liters: 4000*800*H 2010 mm



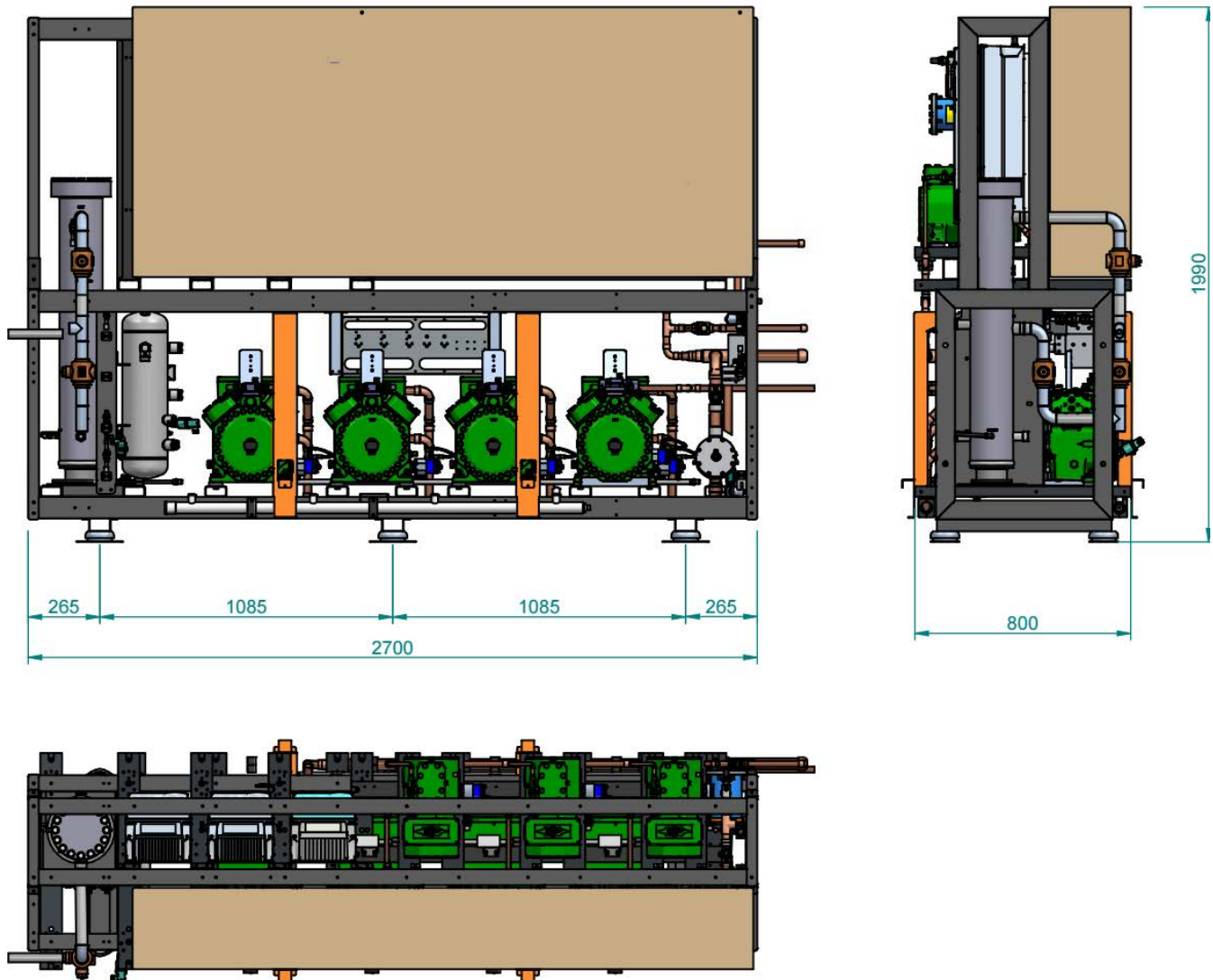
Dimensions

*MT3+LT3 Without liquid receiver: 2250*800* H 1990 mm*



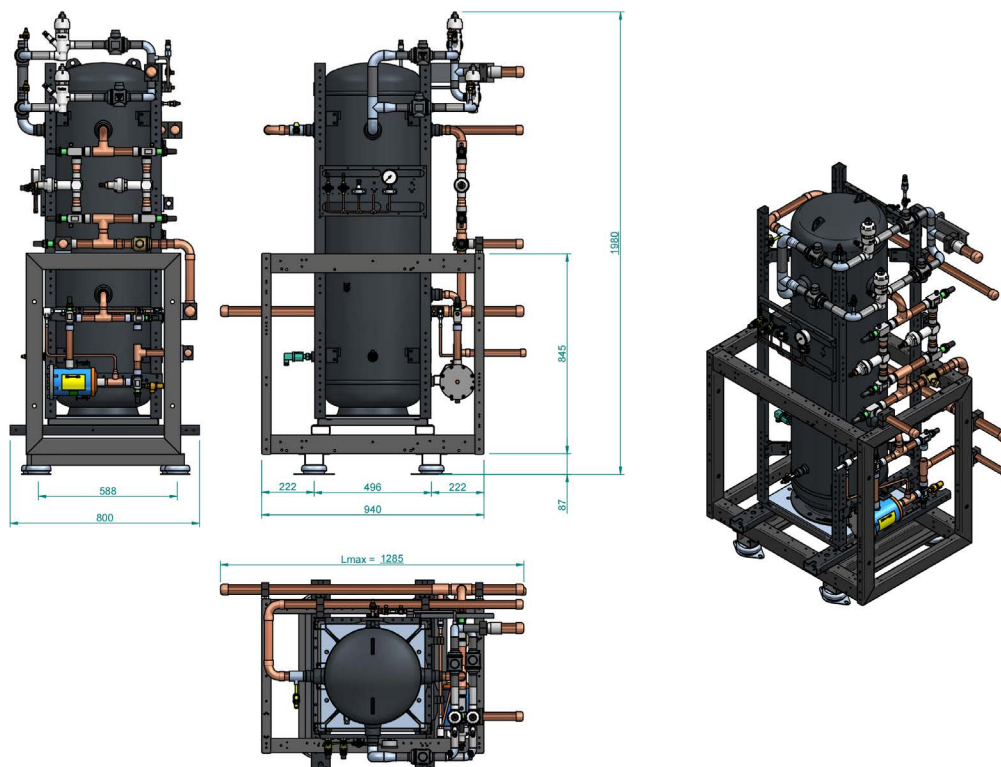
Dimensions

*MT4+LT3 or MT3+ETE1+LT3 Without liquid receiver: 2700*800* H 1990 mm*

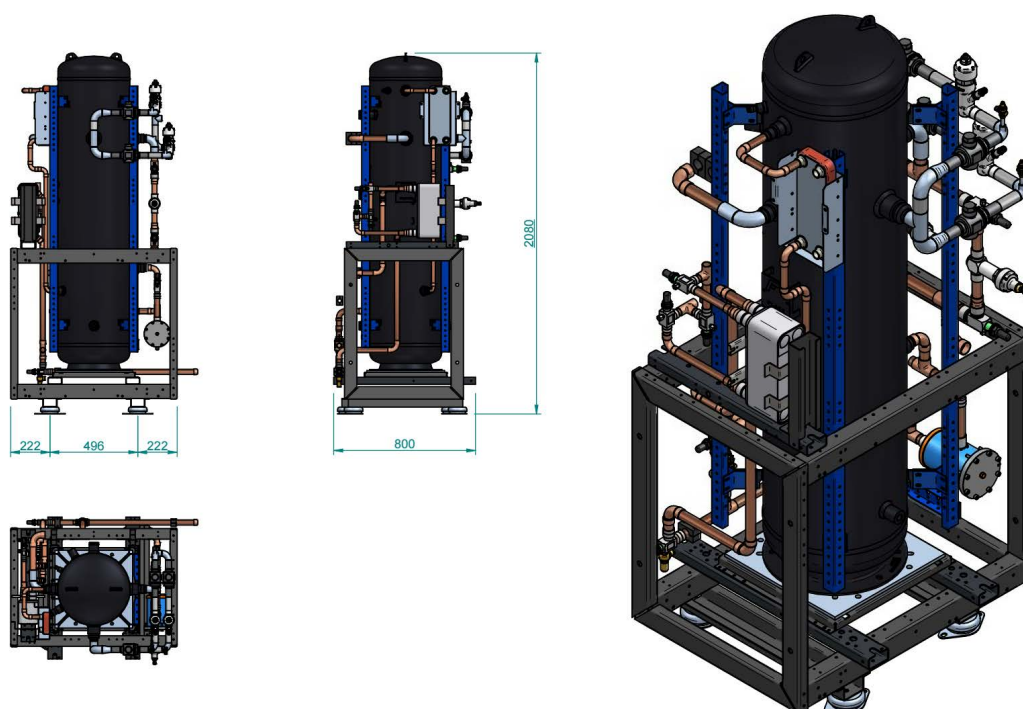


Dimensions

*Remote liquid receiver 165 liter : dim 940*800* H 1980 mm*

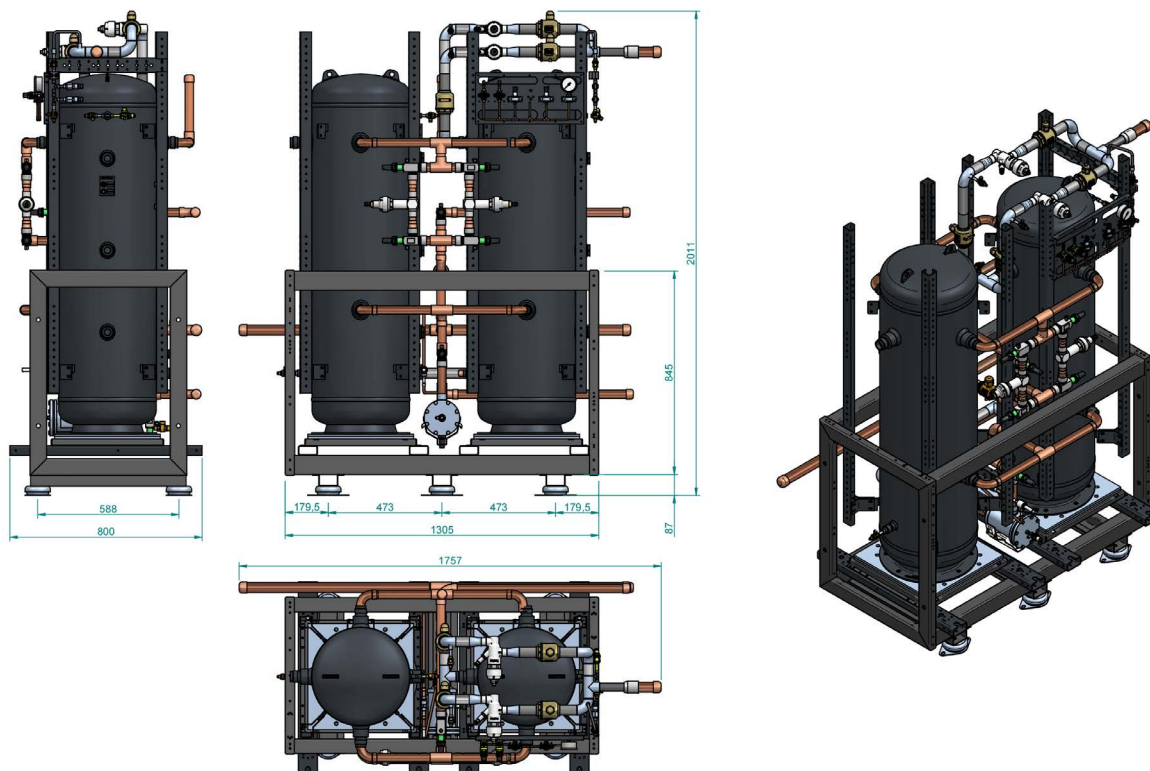


*Remote liquid receiver 200 liter : dim 940*800* H 2080 mm*

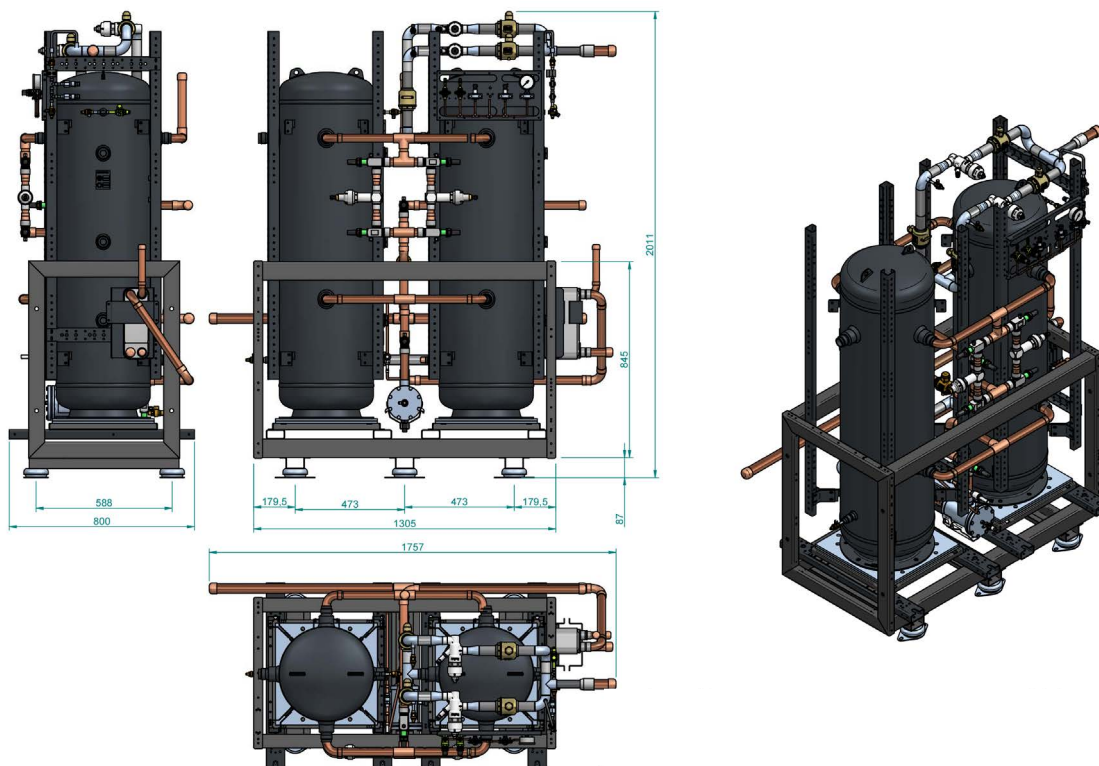


Dimensions

*Remote liquid receiver 2*165 liter : dim 1305*800* H 2010 mm*

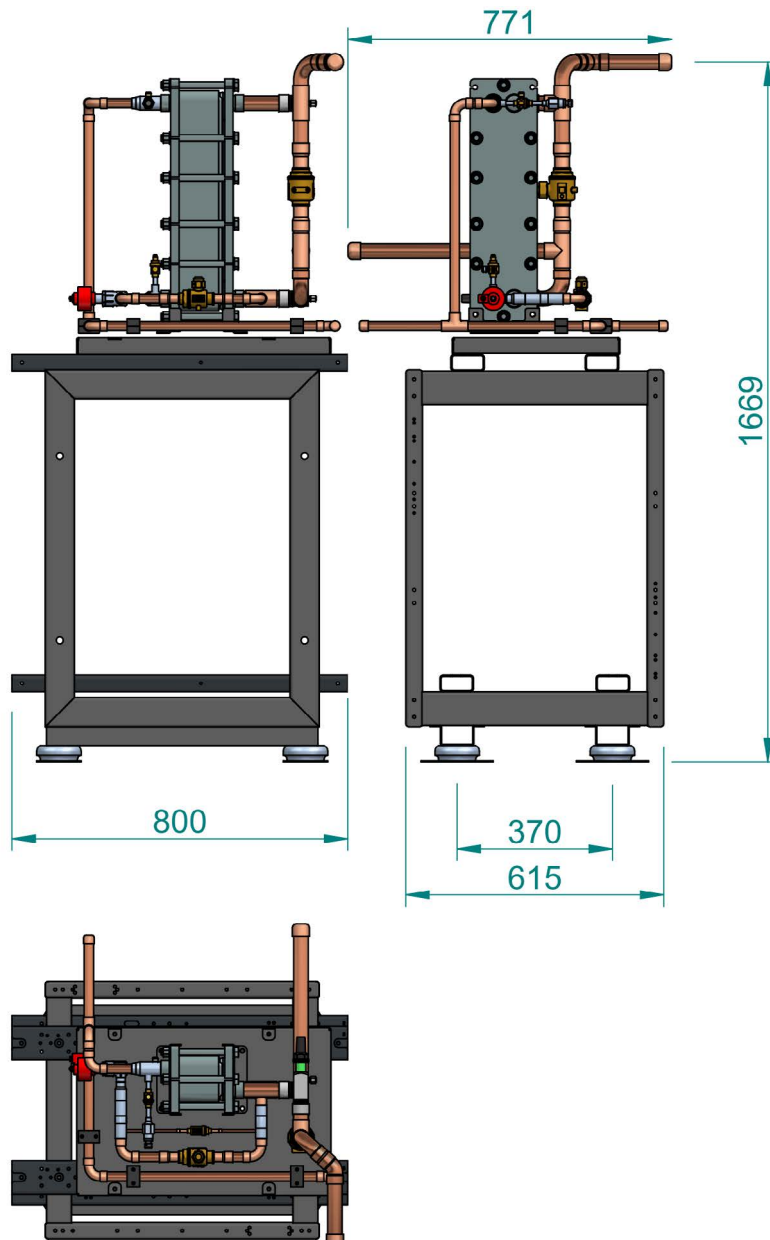


*Remote liquid receiver 2*165 liter with PHX liquid line / suction LT : dim 1545*800* H 2010 mm*



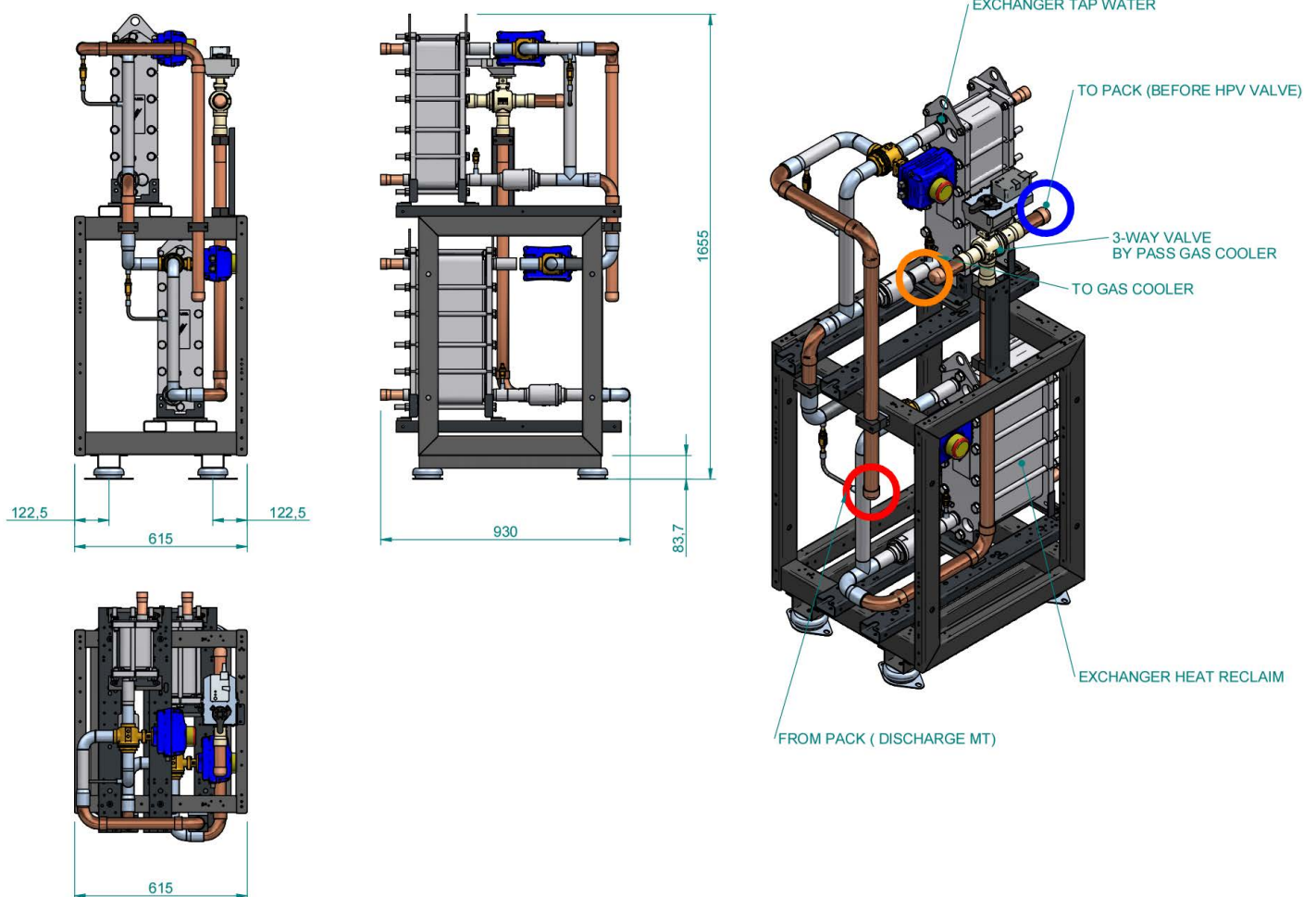
Dimensions

ETE MODULE: dim 615*800* H 1670 mm



Dimensions

HEAT RECOVERY MODULE: dim 615*930* H 1670 mm



Dimensions

Example : ECO2MIDDLE 3//1ETE + RLV 200L+ HR MODULE

