



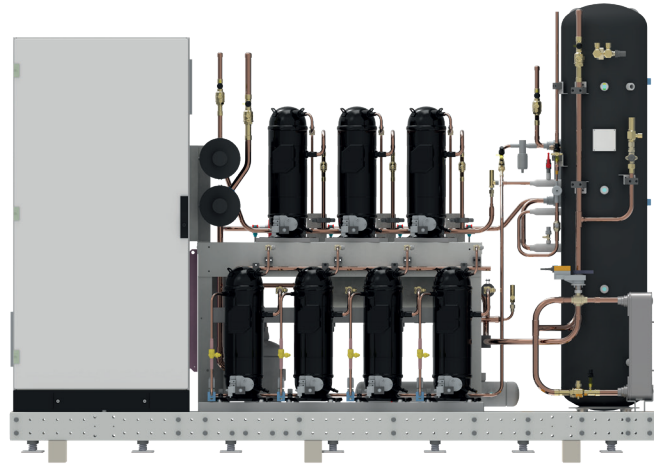
# Efficiency Up *in all climate*

**CO<sub>2</sub>** transcritical racks

**LOW OPERATING  
COSTS IN ALL  
CLIMATES**  
*due to vapor injection  
technology*



Convenience Store



### Common DATA

|  |            |
|--|------------|
| Liquid receiver volume [liters]                | 105 - 150  |
| MAX Cooling Capacity MT/LT Inverter Compressor | 25-100%    |
| Electrical supply [V/ph/Hz]                    | 400/3+N/50 |

### Optional

- Heat Recovery + 3-way Valve
- Standard enclosure for outdoor installation - approx. 45dB(A)
- Low noise enclosure - approx. 30dB(A)
- Energy Meter

### Dimensions

- 3+2 : APPROX L.2580 - H.1980 - W.800
- 4+3 : APPROX L.2930 - H.1990 - W.810

### Standard EQUIPMENT

- Electronic oil level regulator Traxoil each compressor
- Replaceable oil filter dryer
- Maintenance free oil separator with integrated oil reservoir
- Electronic minimum liquid level switch
- Flash Liquid heat exchanger
- DVI Vapor Injection System
- Dixell controller with Modbus communication
- Common discharge manifold for PRV
- Full Factory Tested and Programmed

### Standard DESIGN PRESSURES

- High Pressure: 120 bar
- Receiver Pressure: 80 bar
- MT Suction Pressure: 60 bar (optional 80bar)
- LT Suction Pressure: 60 bar (optional 80bar)

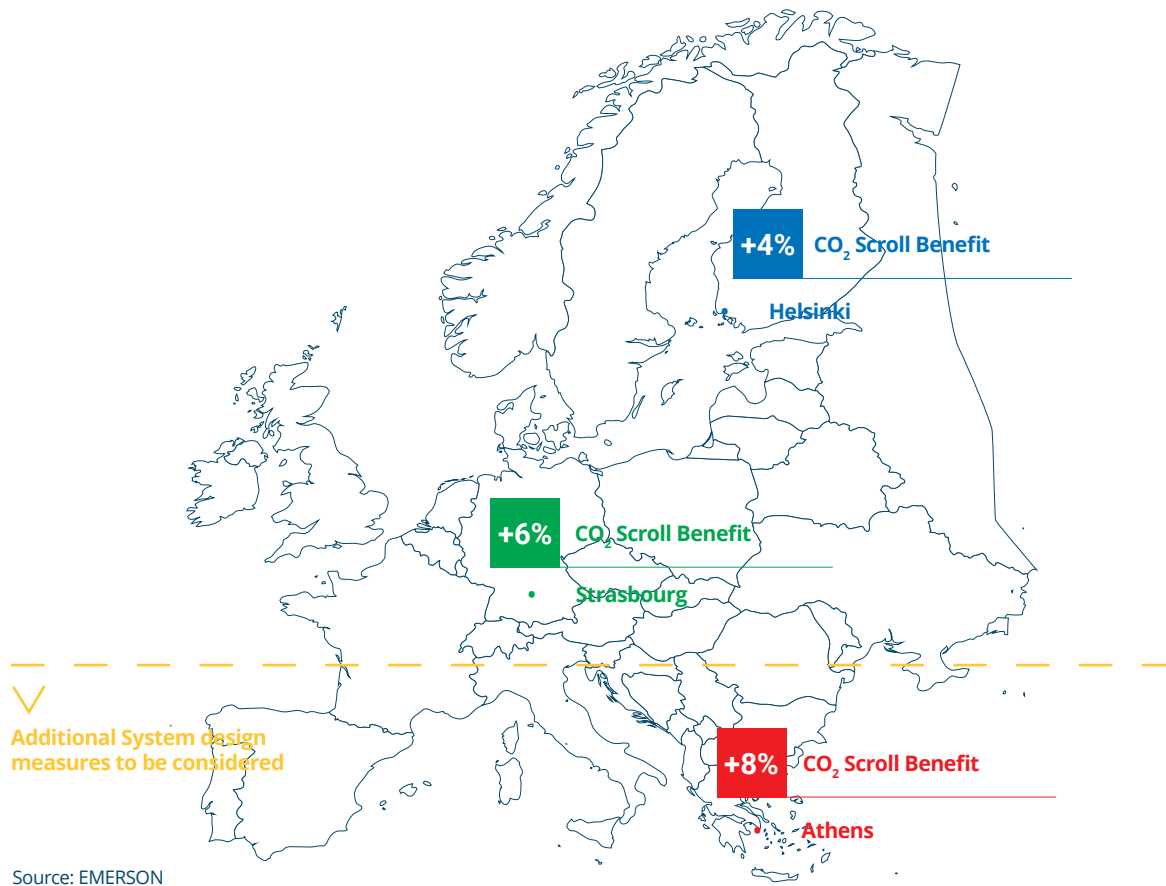
## PRELIMINARY DATA

| Unit Model                     | MT      |         |           |           |        | LT      |        |           |           | General             |           |       |             |                      |
|--------------------------------|---------|---------|-----------|-----------|--------|---------|--------|-----------|-----------|---------------------|-----------|-------|-------------|----------------------|
|                                | ZTW36AG | ZTI36AG | Qo min kW | Qo max kW | Qgc kW | ZLV16AG | ZL16AG | Qo min kW | Qo max kW | Liquid receiver dm3 | Weight kg | MRA A | Noise Power | Noise pressure @ 10m |
| MWSR 2x063 MTDX                | 1       | 1       | 10,0      | 48,7      | 81,8   |         |        |           |           | 105                 | 425       | 94    | 75          | 47                   |
| MWSR 3x063 MTDX                | 1       | 2       | 10,0      | 65,0      | 110,2  |         |        |           |           | 105                 | 530       | 127   | 77          | 49                   |
| MWSR 4x063 MTDX                | 1       | 3       | 10,0      | 81,3      | 138,5  |         |        |           |           | 150                 | 671       | 163   | 78          | 50                   |
| MWSR 2x063 MTDX + UMCE010HBT   | 1       | 1       | 8,6       | 39,2      | 82,1   | 1       | 0      | 1,0       | 7,3       | 105                 | 520       | 114   | 75          | 47                   |
| MWSR 3x063 MTDX + UMCE010HBT   | 1       | 2       | 8,6       | 55,5      | 110,5  | 1       | 0      | 1,0       | 7,3       | 105                 | 625       | 150   | 77          | 49                   |
| MWSR 3x063 MTDX + UMCE2x010HBT | 1       | 2       | 8,6       | 50,5      | 110,7  | 1       | 1      | 1,0       | 11,1      | 105                 | 720       | 158   | 78          | 50                   |
| MWSR 4x063 MTDX + UMCE2x010HBT | 1       | 3       | 8,6       | 66,8      | 139,0  | 1       | 1      | 1,0       | 11,1      | 150                 | 861       | 191   | 79          | 51                   |
| MWSR 4x063 MTDX + UMCE3x010HBT | 1       | 3       | 8,6       | 61,8      | 139,2  | 1       | 2      | 1,0       | 14,9      | 150                 | 960       | 203   | 80          | 52                   |

### Inputs Overview

|                                    |               |
|------------------------------------|---------------|
| Gas Cooler Outlet Temperature [°C] | 37            |
| Flashtank Pressure                 | DVI Operation |
| MT Evaporating Temperature [°C]    | -8            |
| LT Evaporating Temperature [°C]    | -30           |

## CO<sub>2</sub> Scroll Efficiency Advantage over CO<sub>2</sub> Standard Booster System



### Key Benefits

- **Reduces system complexity *with significant total life cycle cost savings***
- **Low operating costs in all climates *due to vapor injection technology***
- **One system design *fits all climates***
- **Enables the most compact & light system designs**