

## Data Sheet\*

Condenser outlet temperatures up to 165 °C.

4 - pipe connection + 1 wire for power.

Automatic adaption to heat demand between 30 - 100 % of rated power with VSD; the condenser outlet temp is kept constant.

Open piston compressor (4 pistons), derived from reciprocating engine. Can operate up to 200 °C. Patents pending.

Can be delivered with IE4 electrical motors.

Variable speed operation (between 500 and 1500 RPM).

Compatible with 3rd and 4th generation refrigerants.

Displacement 581 m<sup>3</sup>/hr

Oil volume 15 liter

Maintenance: compressor overhaul after 40.000 hrs.

Heat source media: water, water-glycol, thermal oil, steam.

Heat sink media: water, thermal oil, steam.

Temperature range heat source (evaporator) inlet: 20 - 150 °C.

Temperature range sink (condenser) outlet: 80 - 165 °C.

Temperature spread heat source 3 - 30 °C

Temperature spread heat sink 5 - 50 °C

Temperature lift per stage: up to 80 °C

Thermal output compressor: 400 - 1000 kW (depending on evaporator temperature and temperature lift).

Set-up: 1 - stage, 2 stage, serial, parallel

Custom made solutions available.

### Refrigerants:

R1234ze	Tevap_in: 17 - 55 °C	Tcond_out: 55 - 95 °C	A2L refrigerant, low flammability, nontoxic, GWP < 1
R1336mzz-E	Tevap_in: 48 - 87 °C	Tcond_out: 90 - 130 °C	A1 refrigerant, non-flammable, nontoxic, GWP = 18
R1233zd	Tevap_in: 58 - 105 °C	Tcond_out: 105 - 150 °C	A1 refrigerant, non-flammable, nontoxic, GWP = 1
R1336mzz-Z	Tevap_in: 77 - 122 °C	Tcond_out: 120 - 165 °C	A1 refrigerant, non-flammable, nontoxic, GWP = 2

### Dimensions and weight:

Foot print hydrolic module ca 3,5 x 2m; height about 1,7 m for the normal water/water version.

The steam version is ca 1 m longer.

Foot print electrical cabinet (LxWxH) ca 0,6 x 0,8 x 2 m.

Estimated weight 4-5 t

Hydraulic module and electrical cabinet are delivered separately.

10" touch screen; PLC control

### Options:

- condenser designed for the direct production of steam.

- additional sub cooler for power improvements in case there is a high temperature spread over the sink.

\* Disclaimer: This data may change without prior notice.