

Datasheet



CIPRIANI
HEAT EXCHANGERS

Customer :
Customer contact :
email :
Customer reference :
Model : S080+

Item :
Your contact : **Lafipa AS**
email : **birojs@lafipa.lv**
Date : **23.05.2016**

OPERATING CONDITION

| | | COLD SIDE | HOT SIDE |
|--|----------|-----------|-------------|
| Fluids | | Water | Water |
| Inlet flow rates | m³/h | 2,7 | 3,1 m³/h |
| INLET temperatures | °C | 10,0 | 75,0 °C |
| OUTLET temperatures | °C | 55,0 | 35,0 °C |
| Pressure drop (calc.) | kPa | 14,94 | 19,10 kPa |
| Operating pressure | bar G | 5,00 | 5,00 bar G |
| Capacity | kW | | 140,00 |
| LMTD | °C | | 22,4 |
| Overall heat transfer coeff. (clean / service) | W/(m² K) | | 6242 / 3354 |
| Heat transfer area | m² | | 1,86 |
| Total fouling factor (calc. + req.) | (m² K)/W | | 0,0001380 |
| Oversizing | % | | 86,11 |

FLUID PROPERTIES

| | | | |
|---------------------------|----------|-----------|-----------|
| Density | kg/m³ | 995,05 | 985,87 |
| Specific heat capacity | J/(kg K) | 4178 | 4182 |
| Thermal conductivity | W/(m K) | 0,620 | 0,649 |
| Dynamic viscosity | cP | 0,7567 | 0,5041 |
| Fouling factor (required) | (m² K)/W | 0,0000000 | 0,0000000 |

PRODUCT CONFIGURATION

| | | |
|--|---------------------------------|------------------|
| Product code | SE#0080+025A00HNPV0JJ11 | |
| Plates (material / thickness) | AISI 316L (1.4404) / 0,5 mm | |
| Gaskets (material / type) | NBR / Glue-free Plug-In® design | |
| Connections (size / type / material) | DN32 | DN32 |
| Connections type | Threaded nozzles | Threaded nozzles |
| Connections material | AISI 316 | AISI 316 |
| Fluids position (inlet -> outlet) | F3 -> F4 | F1 -> F2 |
| No. of passes | 1 | 1 |
| Relative directions of fluids | Counter Current | |
| No. of plates | 25 | |
| Tightening quote (d) | mm | 75 |
| Maximum No. of plates allowed on frame | 29 | |

DESIGN

| | | |
|---------------------------------------|--------------------------|----------|
| Design standard | PED | |
| PED (classification / module) | Art. 3.3 (Gr. 2 - L) / - | |
| Pressure (design / test) | bar | 10 / 15 |
| Temperature (min / design) | °C | -10 / 90 |
| Volume (each side) | l | 2,4 |
| Specific compliance and certification | - | |

DIMENSIONS

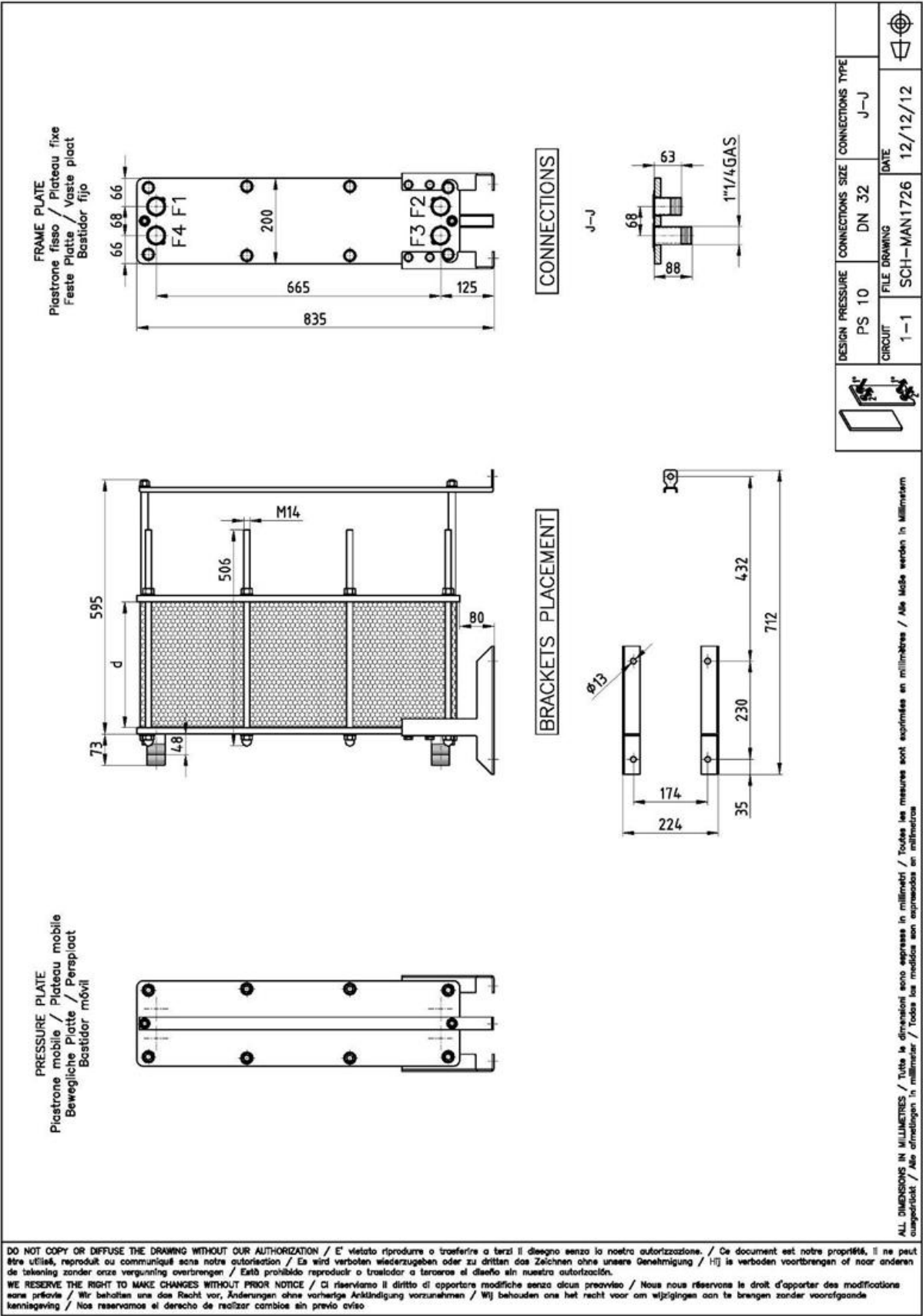
| | | |
|--------------------------------|----|-----------------|
| Overall dimensions (W x H x L) | mm | 200 x 755 x 251 |
| Weight (empty / operating) | kg | 50 / 55 |

REMARKS

Checking of CHEMICAL COMPATIBILITY between fluids and materials is on user charge. Contact us for support
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Drawing

Item :
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