

Technical data sheet

# Inert Loop S-395



## Scope of delivery

All configurations are supplied ready to use.

Component	Dehumidifier S-396
Instrument	1
Woulff bottle	1
Cap nut SVL 22	1
Screw cap SVL 22	1
Seal PTFE	1
PTFE hose connection SVL 22	1
Oxygen Sensor S-395	1
Vacuum clamp KF 25	3
Hose Inert Loop TPR conf.	1

## Order code

Choose the configuration according to your needs:

1 1 0 7 4 6 2

Inert Loop S-395

- 0 200 V 50 Hz
- 1 220 - 240 V 50 Hz
- 2 200 V 60 Hz
- 3 240 V 60 Hz

1 1 0 7 5 1 7 4

Inert Loop S-395

220 V 60 Hz



### NOTICE

#### Risk of instrument damage due to frozen water in the heat exchanger.

The Inert Loop S-395 removes the organic solvent from the drying gas stream coming out of a Mini Spray Dryer S-300. The system can not be used only with an Inert Loop S-395 when 20% of water or more is in the drying gas stream. For this solvent mixture it is necessary to have Dehumidifier S-396 additionally which will remove the water prior to the removal of the organic solvent. Without the Dehumidifier S-396, it is possible to freeze water in the heat exchanger and harm / destroy the instrument.

## Technical data

### Inert Loop S-395

Specification	Inert Loop S-395	Inert Loop S-395	Inert Loop S-395	Inert Loop S-395	Inert Loop S-395
	200 V	220 - 240 V	200 V	240 V	220 V
	50 Hz	50 Hz	60 Hz	60 Hz	60 Hz
Dimensions (W x D x H)	705 x 660 x 687 mm	705 x 660 x 687 mm	705 x 660 x 687 mm	705 x 660 x 687 mm	705 x 660 x 687 mm
Weight	96.7 kg	91.0 kg	96.7 kg	96.7 kg	91.0 kg
Power consumption	max. 1700 VA	max. 1700 VA	max. 2000 VA	max. 2000 VA	max. 2000 VA
Frequency	50 Hz	50 Hz	60 Hz	60 Hz	60 Hz
Connection voltage	200 V ± 10 %	220 - 240 V ± 10 %	200 V ± 10 %	240 V ± 10 %	220 V ± 10 %
Primary fuse	10 A	10 A	14 A	14 A	12 A
Secondary fuse	10 A	-	12 A	12 A	-
IP Code	IP20	IP20	IP20	IP20	IP20
Overvoltage category	II	II	II	II	II
Pollution degree	2	2	2	2	2
Rate of cooling	800 W at 0 °C	800 W at 0 °C	920 W at 0 °C	920 W at 0 °C	920 W at 0 °C
Refrigerant	R449A	R449A	R449A	R449A	R449A
CO-equivalent	1.369 t	1.369 t	1.369 t	1.369 t	1.369 t
Filling amount of refrigerant	0.98 kg	0.98 kg	0.98 kg	0.98 kg	0.98 kg
Safety Group Refrigerants (ASHRAE)	A1 (lower toxicity, no flame propagation)	A1 (lower toxicity, no flame propagation)	A1 (lower toxicity, no flame propagation)	A1 (lower toxicity, no flame propagation)	A1 (lower toxicity, no flame propagation)
Maximum allowable pressure (PS) [Low pressure side]	22 bar	22 bar	22 bar	22 bar	22 bar
Maximum allowable pressure (PS) [High pressure side]	26 bar	26 bar	26 bar	26 bar	26 bar
Min. process gas temperature	-30 °C	-30 °C	-30 °C	-30 °C	-30 °C
Max. process gas temperature	8 °C	8 °C	8 °C	8 °C	8 °C
Minimum clearance on all sides	300 mm	300 mm	300 mm	300 mm	300 mm

## Ambient conditions


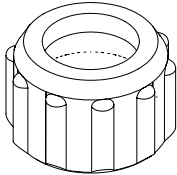
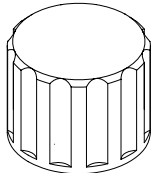
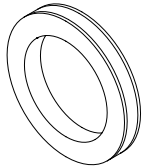
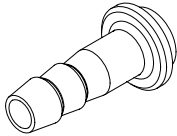
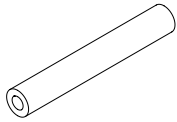

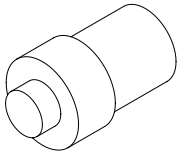
For indoor use only.

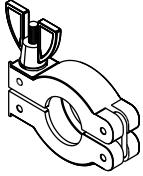
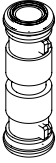
Max. altitude above sea level	2000 m
Ambient temperature	5 – 35 °C
Maximum relative humidity	80 % for temperatures up to 31 °C decreasing linearly to 50 % relative humidity at 35 °C
Storage temperature	max. 40 °C

## Materials

Component	Materials of construction
Hose connections, tubing, weld-on nipple	Stainless steel 1.4571
Pre-heat exchanger, condensate separator	Stainless steel 1.4301
Plate heat exchanger	Stainless steel 1.4401
Screw connections, Ball valve	Stainless steel 1.4408
Sealing ball valve	PTFE
Pipe elbow	Stainless steel 1.4307
Pressure switch	PVDF, Viton, NBR/aramid fiber composite
Oxygen sensor	PA, PPS, PTFE, stainless steel
Black hoses	EPDM
Drain tube	PVC
Woulff bottle	Glass
Plate heat exchanger	Stainless steel solder

## Spare parts

	Order no.	Image
Woulff bottle	041875	 A cylindrical glass bottle with two small glass tubes protruding from the top.
Cap nut SVL 22	003577	 A cylindrical cap nut with a flanged top and a threaded bottom.
Screw cap SVL 22	005222	 A cylindrical screw cap with a flanged top and a threaded bottom.
Seal PTFE	005155	 A flat, circular PTFE seal ring.
PTFE hose connection SVL 22	027338	 A PTFE hose connection fitting with a threaded end and a hose end.
Silicone hose 10x2.0x80 V0	11075249	 A long, thin, cylindrical silicone hose.
Hose PVC Ø 14x18 L=3m	042824	 A short, thick, cylindrical PVC hose.
Oxygen Sensor S-395 Shelf life max. 1 year	11075130	 A cylindrical oxygen sensor with a threaded end and a protective cap.

	Order no.	Image
Vacuum clamp KF 25	11063662	
Hose Inert Loop TPR conf.	11071076	



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