



MULTI BASKET STRAINER

Ver. 001

Tag N°

P ⁰	30/5/2024	Preliminary	E. Kaganowski	E. Kaganowski	
REV	DATE	DESCRIPTION	BY	CKD	APPROVED

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MULTI-BASKET STRAINER

This document covers the technical requirements for manufacture, assembly, testing, supply and delivery of multi basket filter.

The unit shall operate at BILLU terminal.

The filter shall be handling commercial kerosene, as follow:

JET Fuel:

- Density 15 ⁰ C	0.805
- Kinematics viscosity (CST at 15 ⁰ C)	3-4
- Copper corrosion (2 hr./ 100 ⁰ C)	1 Max
- Acidity (mg koh./gr.)	0.015
- Sulphur content (wt%)	0.2

SITE CONDITIONS:

1. The units shall be installed outdoor.
2. Site altitude is about 70 m' above sea level.
3. Ambient temperature varies between 0⁰C- 48⁰C.
4. Relative humidity varies between 35% - 90%.
5. Rain falls about 350-550 mm' / year.

TECHNICAL REQUEST:

General:

1. Flange connections are to be according to ANSI B16.5 150# RF, in standard, non –offset horizontal nozzle position at level of about 90 cm' above ground.
2. Total **net free** flow area shall be 10 times larger than the cross section free flow area of the suction line.
3. Basket: reinforced heavy gauge 316 stainless steel constructions with perforation and 100 mesh stainless steel lining.
4. The vessels housing and cover shall be made of carbon steel.
5. The vessels shall be internally lined with epoxy lining suitable for jet-fuel services, in according with EI1541. The exterior surface shall be epoxy painted according to manufacturer standard.

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6. The vessels shall be manufacture according to ASME Code Section VIII Div I, not stamped.
Test
7. The strainer shall be fitted with DPT system (Differential Pressure transmitter). Threaded connection is to be according to NPT.
8. The vessels shall be fitted with dome cover, swing bolt closure with Viton seals, O-ring.
9. The cover shall be lift up by davit arms & handwheel.

Flanges (class range):

The filter shall have **10"** flanged ends.
End connections shall be according to ANSI B16.5 150# RF.

Materials:

Filter shell: A 216 Gr. WCB or A-106 or equivalent.
Corr.' Allow: 1 mm'/.
Basket: S.S
Gasket Material: Viton.

Process data:

Flow-rate: 2000 gpm @ 4 bars.
Operating Temperature: 30 °C.
Design Temperature: 50 °C.
Max inlet pressure: 10 bar.



Dimension:

Nozzles	Flange	Size	Rating
Inlet	RF	10"	150#
Outlet	RF	10"	150#
Drain	RF	2"	150#
Vent	NPT	1/2"	3000#
Inlet/Outlet Nozzles Drain	NPT	1/2"	3000#
DPI	NPT	1/2"	3000#

GENERAL TERMS:

In order to evaluate the tender's quotation, the following information must be given:

- Filter drawings.
- Accessories drawings.
- List of recommended spare parts with pricing.
- Delivery date after receipt of drawing and documents approval.
- Weight of empty & full housing.
- Hosing volume .
- List of Israeli customers including contact address.
- Price for the offer.

GUARANTEE:

The vender shall guarantee materials and workmanship for a period of 12 months from the date of commissioning.

Should any defect due to faulty design, materials or bad workmanship become apparent during the guarantee period, the vendor shall repair or otherwise rectify the defects, and free of charge to purchaser. Changes shall be made at a time and a manner agreeable to the client.

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QUANTITY TABLE:

Item	Size	Quant.	Note
1	10"	1	Multi Basket C.S shell and S.S basket. ASA 150# RF Inlet and outlet, Mesh 100. 2000 gpm
2		2	Spare Baskets
3		2	Spare cover seal