

	DEHDASHT PETROCHEMICAL INDUSTRY COMPANY DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT	
	DOCUMENT TITLE: Utility Consumption List	POI: IFA
Contract No.: DPIC/98-12	DOCUMENT NUMBER: DPIC9812-000-VD-1002-ME-LST-0048	Rev. No.: D0

DOCUMENT TITLE:

UTILITY CONSUMPTION LIST

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PURCHASER'S COMMENT/APPROVAL STATUS					Purchaser: NARGAN
1	AP: Approved (Released for Manufacturing)				Requisition No.: DPIC98-12-001-000-ME-MR-4150-0001-D1
<input checked="" type="checkbox"/>	AN: Approved With Minor Comments (Fabrication may Proceed)				
3	NF: Approved With Comments (Fabrication not Proceed)				Item No. (Tag No.): PK-6101
4	RJ: Rejected				
5	NR: Not be Returned				Vendor Doc. No.: DPIC9812-000-VD-1002-ME-LST-0048-D0
Date:		18.01.2022	Signature: A.AB		
					
D0	03.Jan..22	R.GOUDARZI	DR.A.NEJATI	DR.A.NEJATI	
REV	DATE ISSUE	PREPARED	CHECKED	APPROVED	



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distribution branch headers shall be sized as here below indicated:

- 1/2" up to 5 users
- 3/4" for 6 -10 users
- 1" for 11 -15 users
- 1 1/2" for 16 -20 users

GENERAL MAJOR COMMENT:
 All utilities consumption shall be revised based on correct Hexan flowrate and correct propylene cycle flowrate.
 Also utility consumption shall be finalized after approval of heat exchanger thermal design.

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to be defined as per project spec

FLUIDS

ITEM	SERVICE	FLUID (PHASE)	PIPING SIZE	FLOW (kg/h)	TEMPERATURE (°C)				PRESSURE (barg)				DURATION
					MIN.	NORM.	MAX.	DESIGN	MIN.	NORM.	MAX.	DESIGN	
E-PK6101-1A/B	COOLING	JACKETED WATER (LIQUID)	3"	22548.6	37.0	-	45.0	190.0	5.755	-	5.901	10.0	CONTINUOUS (1)
E-PK6101-2	COOLING	JACKETED WATER (LIQUID)	12"	289043	37.0	-	45.0	190.0	5.634	-	5.901	10.0	CONTINUOUS
PK-6101	VALVES	INSTRUMENT AIR (GAS)	3/4"	9.2 Nm3/h (2)	4.0			8.0	6.5	7	7.5	10.5	CONTINUOUS

NOTES:

1) 1 OF 2 COOLERS IS IN SERVICE. (IN CASE OF CHANGEVER OF COMPRESSOR OIL COOLERS CAN BE BOTH FOR A SHORT TIME IN OPERATION).

2) AIR CONSUMPTION FOR CONTROL VALVES= 0.9 Nm3/h PER VALVE
 AIR CONSUMPTION FOR ON-OFF VALVES= 3": 0.3 Nm3/h PER VALVE, 6": 0.45 Nm3/h PER VALVE

Qty of valves are not clear in this doc

It is not clear. There is only two Oil PUMP, But you have written 3 pump can be run

POWER

ITEM	SERVICE	Q'TY	POWER		VOLT	PHASE	Hz	DURATION	REMARK
			INSTALLED	ABSORBED					
			kW						
C-PK6101-1A	SCREW COMPRESSOR	1	1240.0	1160.0	6000	3	50	CONTINUOUS	-
P-PK6101-1A/2A P-PK6101-1A/2A	OIL PUMP	2	7.5	5.0	400	3	50	CONTINUOUS	(UP TO 3 PUMPS CAN RUN TOGETHER FOR APPROX. 30-60 SECONDS IN AN UPSET CONDITION. IN NORMAL OPERATION 1 TO 2 OIL PUMPS CAN BE IN OPERATION.)
E-PK6101-4A/B	OIL HEATER OIL SEPARATOR	1	1.5 (*)	-	400	3	50	DISCONTINUOUS	ONLY DURING START-UP
-	ELECTRICAL HEAT TRACING	-	3.0 (*)	-	230	1	50	CONTINUOUS	ALL ELECTRICAL CONNECTIONS ARE TERMINATED AT LOCAL PANEL
-	SPACE HEATER MAIN MOTOR	2	0.3	-		1		DISCONTINUOUS	-
-	SPACE HEATERS OIL PUMP	4	0.05	-	230			DISCONTINUOUS	-

NOTES:

(*) WILL BE FINILIZED LATER.

UCP UPS and NON UPS demand to be mentioned too

is Oil Heater off during system shut down?

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