





	<b>Toase-eh Park Sanati Gohar Ofogh Petrochemical Co.</b>				 		
	<b>CONCEPTUAL, BASIC and DETAIL DESIGN ENGINEERING OF STYRENE PARK OFFSITE</b>						
	Document Title: Utility Consumption List including Electrical Load List				Rev. R0		Page 1 of 4
Document No.: EI027-HSE-VD – PR– LST– 003-R0							

INSTRUMENT AIR													
ITEM	SERVICE	FLUID (PHASE)	PIPING SIZE	FLOW (Nm3/h) Cont. / Design	TEMPERATURE (°C)				PRESSURE (barg)				DURATION
					MIN.	NORM.	MAX.	DESIGN	MIN.	NORM.	MAX.	DESIGN	
REFRIGERATION PACKAGE RU0001 A/B	VALVES	INSTRUMENT AIR (GAS)	1/2"	1.8 / -	5	AMB.	50	85	6.5	7	7.5	10.5	CONTINUOUS
NOTES: 1) Air Consumption for Control Valves= 0.9 Nm3/h Per Valve.													

GENARL NOTES:

- Utility consumption data are considered for whole package.

 	<b>Toase-ehe Park Sanati Gohar Ofogh Petrochemical Co.</b>		 
	<b>CONCEPTUAL, BASIC and DETAIL DESIGN ENGINEERING OF STYRENE PARK OFFSITE</b>		
	Document Title: Utility Consumption List including Electrical Load List		
Document No.: EI027-HSE-VD – PR– LST– 003-R0			Rev. R0   Page 2 of 4

## DEFINITIONS:

### COLUMN POWER SUPPLY :

"STATUS SUPPLY" INDICATES TYPE OF POWER SUPPLY

- N : NORMAL
- E : EMERGENCY
- U : UPS LOADS

### COLUMN RATED POWER (KW)





RATED POWER SHALL BE CONSIDERED MECHANICAL POWER WITH API  
FACTOR CONSIDERATION AND  
NORMALIZATION TO STANDARD RATING POWERS (REFER TO IEC60072-1)

### COLUMN EFFICIENCY (%) :

EFFICIENCY FACTOR AT NORMAL LOAD

### COLUMN POWER FACTOR (%) :

POWER FACTOR AT NORMAL LOAD

 	<b>Toase-eh Park Sanati Gohar Ofogh Petrochemical Co.</b>										 
	<b>CONCEPTUAL, BASIC and DETAIL DESIGN ENGINEERING OF STYRENE PARK OFFSITE</b>										
	Document Title: Utility Consumption List including Electrical Load List										
Document No.: EI027-HSE-VD – PR– LST– 003-R0										Rev. R0	Page 3 of 4

REV.	ITEM	TAG NO.	Description	Quantity Total	Quantity			Rated Power (KW)	Normal Power (KW)	Rated Voltage	Efficiency (%)	Power Factor	3 phase / 1 phase	Power Supply	REMARKS
					Continuous	Intermittent	Standby							N/E/U	
0	1	70-UCP-RU7001A/B	Unit Control Panel	1	x	-	-	2.500	2.500	110 VAC	100	0.97	1 phase	U	
0	2	70-UCP-RU7001A/B	Unit Control Panel	1	x	-	-	1.000	1.000	220 VAC	100	0.97	1 phase	N	
0	3	RU0001A-M-01	Main Motor	1	x	-	-	120	120	400 VAC	95.4	0.91	3 phase	N	
0	4	RU0001B-M-01	Main Motor	1	x	-	-	120	120	400 VAC	95.4	0.91	3 phase	N	
0	5	RU0001A-MSH-01	Main Motor Space Heater	1	-	x	-	0.109	0.109	230AC	100	1.00	1 phase	N	
0	6	RU0001B-MSH-01	Main Motor Space Heater	1	-	x	-	0.109	0.109	230AC	100	1.00	1 phase	N	
0	7	RU0001A-M-04	AUX Motor	1	x	-	-	2.5	2.5	400VAC	87.7	0.8	3 phase	N	
0	8	B-M-04	AUX Motor	1	x	-	-	2.5	2.5	400VAC	87.7	0.8	3 phase	N	
0	9	RU0001A-H-01	Oil Heater	1	x	-	-	2	2	400VAC	100	1	3 phase	N	
0	10	RU0001B-H-01	Oil Heater	1	x	-	-	2	2	400VAC	100	1	3 phase	N	



**Toase-eh Park Sanati Gohar Ofogh  
Petrochemical Co.  
CONCEPTUAL, BASIC and DETAIL DESIGN ENGINEERING OF STYRENE PARK  
OFFSITE**



Document Title: Utility Consumption List including Electrical Load List

Document No.: EI027-HSE-VD – PR– LST– 003-R0

Rev. R0

Page 4 of 4

ITEM	REV.	TAG NO.	Description	Load Type	Load Statude	Operating Type	Voltage Type	Voltage (V)	Frequency (Hz)	Mechanical Absorbed Power (KW)	Rotor Shaft Power @Min Temp	API 661 Factor (part: 7.2.7.1.2)	Absorbed Power (KW) (see note 1)	EFF.	P.F.	Operating Power(Kw)	Rated Power	rated Current	Density Factor	Starting Method
1	0	RU0001A-M-03	Air cooler MOTOR LOAD LV-400V	M	C	N	3 PH	400±5%	50±2%	4.5	5.3	1.05	4.97	0.9	0.84	6.9	7.5	14.43	1	VFD
2	0	RU0001A-M-02	Air cooler MOTOR LOAD LV-400V	M	C	N	3 PH	400±5%	50±2%	4.5	5.3	1.05	4.97	0.9	0.84	6.9	7.5	14.43	1	DOL
3	0	RU0001B-M-03	Air cooler MOTOR LOAD LV-400V	M	C	N	3 PH	400±5%	50±2%	4.5	5.3	1.05	4.97	0.9	0.84	6.9	7.5	14.43	1	VFD
4	0	RU0001B-M-02	Air cooler MOTOR LOAD LV-400V	M	C	N	3 PH	400±5%	50±2%	4.5	5.3	1.05	4.97	0.9	0.84	6.9	7.5	14.43	1	DOL
C: Countinus Operation																				
CS: Countinus Standby																				
IO: Intermitant Operation																				
SD: Shutdown operation																				
SU: Start Up operation																				
N: Normal Load																				
E:Emergency Load																				
DOL: Direct on Line Staring																				
VFD: Variable Frequency Drive																				