

0	rev	RECIPROCATING COMPRESSOR DATA SHEET									
1	CUSTOMER: <b>ENI</b>		LOCATION <b>Italy</b>								
2	SERVICE: <b>Makeup and Hysomerization</b>										
3	MODEL: <b>2HE/1-1</b>		Q.TY: <b>2</b>	ITEM: <b>k-001</b>							
4	CYLINDER Construction: <input checked="" type="radio"/> <b>LUBE</b> <input type="radio"/> <b>NO LUBE</b>										
5	OPERATING CONDITIONS (FOR EACH MACHINE)										
6	-SERVICE No.		<b>1</b>	<b>2</b>							
7	-CASE		DESIGN	DESIGN							
8	-STAGE		<b>1</b>	<b>1</b>							
9	-GAS HANDLED		Next Page	Next Page							
10	-MOLECULAR WEIGHT		2.03	2.47							
11	-SUCTION PRESSURE (at cyl.flange)	Bar A	30.73	31.85							
12	-SUCTION TEMPERATURE	°C	40	51							
13	-DISCHARGE PRESSURE (at cyl.flange)	Bar A	47.01	55.61							
14	-EXPECT. DISCHARGE TEMP.	°C	86	111							
15	-MFR CAPACITY (*)	Kg/h	3,028	3,715							
16		Nm3/h	33,395	33,769							
17	-SHAFT POWER	kW	1,367	----							
18	-RATED SPEED	RPM	370	----							
19	-RECOMM. DRIVER POWER	kW	1,550	----							
20											
21	(*) MFR Capacity=Required Capacity/0.97 as per API 618 (on suction side dry basis)										
22											
23	CYLINDER DATA										
24	-SERVICE / STAGE		<b>1 / 1</b>	<b>2 / 1</b>							
25	-N° OF CYL. PER STAGE		<b>1</b>	<b>1</b>							
26	-SINGLE/DOUBLE ACTING		DA	DA							
27	-BORE	mm	380	390							
28	-STROKE	mm	290	290							
29	-PISTON ROD DIAMETER	mm	90	90							
30	-PISTON DISPLACEMENT	m3/h	1,419.3	1,497.2							
31	-VOL. EFFICIENCY	%									
32	-N° OF IN/OUT VALVE PER END										
33	-VALVE TYPE		RINGS	RINGS							
34	-PISTON SPEED	m/s	3.58	3.58							
35	-ACTUAL OPER. PRESSURE (at cyl. flange)	Bar G	46.1	54.7							
36	-RELIEF VALVE SETTING	Bar G	50.8	60.2							
37	-MAX. ALLOW. WORK. PRESS.	Bar G	51.8	61.2							
38	-MAX. ALLOW. WORK. TEMP.	°C	200	200							
39	-HYDROSTATIC TEST PRESS.	Bar G	77.7	91.8							
40	-MAX ALL. COMB.WRIST PIN LOAD COMPR.	daN	53,300	53,300							
41	-MAX ALL. COMB.WRIST PIN LOAD TENSION	daN	49,000	49,000							
42	-COMB.WRIST PIN LOAD, COMPR.	daN	25,036	34,054							
43	-COMB.WRIST PIN LOAD, TENSION	daN	19,057	27,356							
44											
45	MATERIALS (ASTM or EQUIVALENT)										
46	Cylinder		NCI	NCI							
47	Liner		CI	CI							
48	Piston rings / wear bands / packing rings		Filled PTFE	Filled PTFE							
49	Piston rod		SS	SS							
50											
51	KEY: CI= cast iron - NCI= nodular iron - CS= cast steel - FS= forged steel										
52	AS=alloy steel - SS= stainless steel										
53											
54	NOTES:										
55	This machine selection and above data are preliminary.										
56											
57											
58											
59											