

## MYCOM SCREW COMPRESSOR PERFORMANCE SINGLE STAGE (BOOSTER)

Title :					
MODEL :	P160VS*-M				
REFRIGERANT :	PROPANE				
RECOMMENDED PORT :		M	M	M	M
Vi :	[-]	3.64	3.64	3.64	3.64
COMPRESSION RATIO :	[-]	4.37	4.37	4.37	4.37
CAPACITY :	[kW]	226.7	196.1	171.4	151.3
CAPACITY :	[TR]	64.5	55.8	48.7	43.0
ABSORBED POWER :	[kW]	106.8	98.2	91.2	85.6
DRIVE SHAFT SPEED :	[min-1]	2950	2950	2950	2950
COMPRESSOR SPEED :	[min-1]	2950	2950	2950	2950
INDICATOR POSITION :	[%]	100	90.0	80.0	70.0
CONDENSING TEMP. :	[degC]	56.0	56.0	56.0	56.0
EVAPORATIVE TEMP. :	[degC]	0.00	0.00	0.00	0.00
SUCTION SUPERHEAT :	[degC]	0.00	0.00	0.00	0.00
LIQUID SUBCOOLING :	[degC]	0.00	0.00	0.00	0.00
SUCTION TEMP. :	[degC]	0.00	0.00	0.00	0.00
OIL SUPPLY TEMP. :	[degC]	60.0	60.0	60.0	60.0
SUCTION PRESS. :	[MPaA]	0.466	0.466	0.466	0.466
DISCHARGE PRESS. :	[MPaA]	2.03	2.03	2.03	2.03
OIL SUPPLY PRESS. :	[MPaA]	2.23	2.23	2.23	2.23
SUCTION PRES. DROP :	[MPa]	0.005	0.005	0.005	0.005
DISCHARGE PRES. DROP :	[MPa]	0.050	0.050	0.050	0.050
SWEPT VOLUME :	[m3/h]	415	415	415	415
LOAD(SUCTION VOL. FLOW RATE) :	[%]	100	86.5	75.6	66.7
DISCHARGE TEMP. :	[degC]	71.7	72.7	73.5	74.4
REFRIG. FLOW RATE SUC. :	[m3/h]	367	317	277	245
REFRIG. FLOW RATE DIS. :	[m3/h]	88.9	77.4	68.1	60.5
REFRIG. FLOW RATE SUC. :	[kg/h]	3715	3213	2808	2479
REFRIG. FLOW RATE DIS. :	[kg/h]	3715	3213	2808	2479
INJECT. OIL FLOW RATE :	[L/min]	-	-	-	-
LUB. OIL FLOW RATE :	[L/min]	46.0	46.0	46.0	46.0
F. SIDE OIL FLOW RATE :	[L/min]	8.53	8.53	8.53	8.53
*TOTAL* OIL FLOW RATE :	[L/min]	54.5	54.5	54.5	54.5
OIL HEAT REJECTION :	[kW]	18.1	19.5	20.9	22.1
OIL SPEC HT :	[J/kgK]	1930	1930	1930	1930
OIL DENSITY :	[kg/m3]	880	880	880	880
COP :	[-]	2.12	2.00	1.88	1.77
Elevation :	[m]	NA	NA	NA	NA
Atmospheric :	[MPa]	NA	NA	NA	NA

--- SUPER HEAT is NOT counted in refrigeration capacity ---

--- NO OIL INJECTION ---

--- When choosing the motor set a safety factor of more than 10% for the brake power. ---

--- Please check carefully the operating range. ---

--- Reference temperature : Dew Point ---

\*\*\* MYCOMW 28\_Ver.1 compressor performance table is valid until the end of March, 2025. \*\*\*