

## MYCOM SCREW COMPRESSOR PERFORMANCE COMPOUND TWO STAGE

## Title :

MODEL : N2016MSC-LBM-\*1  
 ROTOR & PORT 2ND : 160S M  
 ROTOR & PORT 1ST : 200M LB  
 REFRIGERANT : AMMONIA

RECOMMENDED PORT : LBL  
 Vi 2ND : [-] 3.29  
 Vi 1ST : [-] 3.03

CAPACITY : [kW] 220.6  
 CAPACITY : [TR] 62.7  
 ABSORBED POWER : [kW] 137.5  
 ABSORBED POWER 2ND : [kW] 83.6  
 ABSORBED POWER 1ST : [kW] 53.9

DRIVE SHAFT SPEED : [min-1] 2950  
 COMPRESSOR SPEED : [min-1] 2950  
 INDICATOR POSITION 2ND : [%] 100  
 INDICATOR POSITION 1ST : [%] 100  
 SWEEP VOLUME RATIO (2ND/1ST) : [-] 2.46  
 CONDENSING TEMP. : [degC] 41.0  
 EVAPORATIVE TEMP. : [degC] -36.5  
 SUCTION SUPERHEAT : [degC] 0.00  
 INTERMED. SUPERHEAT : [degC] 0.00  
 LIQUID APPROACH TEMP. : [degC] 5.00  
 LIQUID SUBCOOLING : [degC] 0.00  
 SUCTION TEMP. 1ST : [degC] -36.5  
 OIL SUPPLY TEMP. : [degC] 50.0  
 SUCTION PRESS. : [MPaA] 0.081  
 DISCHARGE PRESS. : [MPaA] 1.65  
 OIL SUPPLY PRESS. : [MPaA] 1.84  
 SUCTION PRES. DROP : [MPa] 0.005  
 DISCHARGE PRES. DROP : [MPa] 0.050

SWEPT VOLUME 2ND : [m3/h] 415  
 SWEPT VOLUME 1ST : [m3/h] 1020  
 LOAD (SUCTION VOL. FLOW RATE) 2ND : [%] 100  
 LOAD (SUCTION VOL. FLOW RATE) 1ST : [%] 100  
 INTERMED. TEMP. : [degC] -5.57  
 SUCTION TEMP. 2ND : [degC] 54.3  
 DISCHARGE TEMP. 2ND : [degC] 71.9  
 DISCHARGE TEMP. 1ST : [degC] 55.5  
 INTERMED. PRESS. : [MPaA] 0.347  
 REFRIG. FLOW RATE 2ND : [m3/h] 70.1  
 REFRIG. FLOW RATE INT. : [m3/h] 55.0  
 REFRIG. FLOW RATE 1ST : [m3/h] 908  
 REFRIG. FLOW RATE 2ND : [kg/h] 774.7  
 REFRIG. FLOW RATE INT. : [kg/h] 121.6  
 REFRIG. FLOW RATE 1ST : [kg/h] 653.2  
 INJECT. OIL FLOW RATE 1ST : [L/min] 63.9  
 LUB. OIL FLOW RATE 2ND : [L/min] 36.8  
 LUB. OIL FLOW RATE 1ST : [L/min] 66.4  
 TOTAL OIL FLOW RATE 2ND : [L/min] 36.8  
 TOTAL OIL FLOW RATE 1ST : [L/min] 130  
 \*TOTAL\* OIL FLOW RATE : [L/min] 167  
 OIL HEAT REJECTION : [kW] 103.4  
 OIL SPEC HT : [J/kgK] 1930  
 OIL DENSITY : [kg/m3] 880

COP : [-] 1.60

Elevation : [m] NA  
 Atmospheric : [MPa] NA

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

--- WITH WATER COOLED OIL COOLER ---

--- WITH LIQUID SUBCOOLER ---

REFRIG. FLOW RATE : [m3/h] 55.0  
 REFRIG. FLOW RATE : [kg/h] 121.6  
 HEAT REJECTION : [kW] 35.8

--- Refrigeration oil is not soluble with refrigerant (mineral oil) ---

--- 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 ---

\*\*\* MYCOMW27 compressor performance table is valid until the end of Mar. 2024. \*\*\*