

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 : LBM		
Vi 2ND :	[-]	3.86
Vi 1ST :	[-]	3.21
CAPACITY :		
CAPACITY :	[kW]	207.9
CAPACITY :	[TR]	59.1
ABSORBED POWER :	[kW]	152.8
ABSORBED POWER 2ND :	[kW]	98.1
ABSORBED POWER 1ST :	[kW]	54.7
DRIVE SHAFT SPEED : [min ⁻¹] 2950		
COMPRESSOR SPEED : [min ⁻¹] 2950		
INDICATOR POSITION 2ND : [%] 100		
INDICATOR POSITION 1ST : [%] 100		
SWEPT VOLUME RATIO (2ND/1ST) : [-] 2.46		
CONDENSING TEMP. : [degC] 50.0*		
EVAPORATIVE TEMP. : [degC] -37.5		
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] -37.5		
OIL SUPPLY TEMP. : [degC] 50.0		
SUCTION PRESS. : [MPaA] 0.077		
DISCHARGE PRESS. : [MPaA] 2.08*		
OIL SUPPLY PRESS. : [MPaA] 2.28		
SUCTION PRES. DROP : [MPa] 0.005		
DISCHARGE PRES. DROP : [MPa] 0.050		
SWEPT VOLUME 2ND : [m ³ /h] 415		
SWEPT VOLUME 1ST : [m ³ /h] 1020		
LOAD (SUCTION VOL. FLOW RATE) 2ND : [%] 100		
LOAD (SUCTION VOL. FLOW RATE) 1ST : [%] 100		
INTERMED. TEMP. : [degC] -5.02		
SUCTION TEMP. 2ND : [degC] 57.0		
DISCHARGE TEMP. 2ND : [degC] 83.3		
DISCHARGE TEMP. 1ST : [degC] 59.3		
INTERMED. PRESS. : [MPaA] 0.355		
REFRIG. FLOW RATE 2ND : [m ³ /h] 55.9		
REFRIG. FLOW RATE INT. : [m ³ /h] 65.1		
REFRIG. FLOW RATE 1ST : [m ³ /h] 905		
REFRIG. FLOW RATE 2ND : [kg/h] 762.8		
REFRIG. FLOW RATE INT. : [kg/h] 145.9		
REFRIG. FLOW RATE 1ST : [kg/h] 617.8		
INJECT. OIL FLOW RATE 1ST : [L/min] -		
LUB. OIL FLOW RATE 2ND : [L/min] 42.8		
LUB. OIL FLOW RATE 1ST : [L/min] 80.8		
TOTAL OIL FLOW RATE 2ND : [L/min] 42.8		
TOTAL OIL FLOW RATE 1ST : [L/min] 80.8		
TOTAL OIL FLOW RATE : [L/min] 124		
OIL HEAT REJECTION : [kW] 116.4		
OIL SPEC HT : [J/kgK] 1930		
OIL DENSITY : [kg/m ³] 880		
COP : [-] 1.36		
ADIABATIC EFFICIENCY : [%] 70.2		
ADIABATIC EFFICIENCY 2ND : [%] 73.9		
ADIABATIC EFFICIENCY 1ST : [%] 64.2		

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

--- WITH THERMO-SIPHON OIL COOLER ---

--- WITH LIQUID SUBCOOLER ---

REFRIG. FLOW RATE :	[m ³ /h]	65.1
REFRIG. FLOW RATE :	[kg/h]	145.9
HEAT REJECTION :	[kW]	41.1

--- No booster oil injection ---

--- Cancel input value protection ---

--- 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 ---

! All data herein is for reference only.

! Content is subject to change without notice.

*** MYCOMW26 compressor performance table is valid until the end of March, 2023. ***