Unicla® 10 CYLINDER SWASH PLATE COMPRESSORS

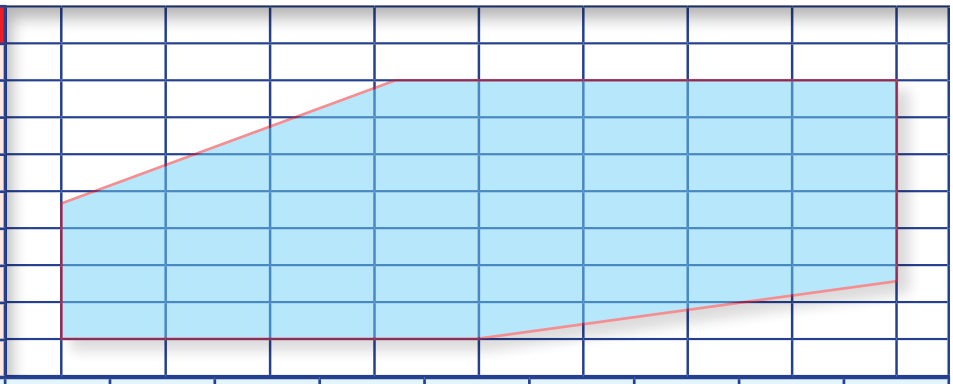
ALL MODEL SERIES: 45cc - 610cc using R134a (HFC-134a)

General Handling and Operating Parameters

ITEM	RANGE IN USE	REMARKS
1.REVOLUTION	Ideal Operation: 800 ~ 3500 rpm	
	Maximum Continuous: 6000 rpm ≤300cc Maximum Continuous: 4500 rpm >300cc	Not for all applications - refer Unicla fitting guidelines
	Momentary: 7000 rpm ≤300cc capacity Momentary: 5000 rpm >300cc capacity	≤ 3 seconds
2.INTENSITY TEST PRESSURE	10.58 MPa (108 kgf/cm²G)	Maximum level - component damage occurs
3.DURABILITY TEST PRESSURE	5.29 MPa (54 kgf/cm²G)	Prolonged high level - no damage to components
4.AIRTIGHT TEST PRESSURE	HP: 3.53 MPa (36 kgf/cm²G)	No leakage in pressure range
	LP: 1.67 MPa (17 kgf/cm²G)	No leakage in pressure range

5.COMPRESSOR OPERATION ENVELOPE

Hp		t
Kg/cm²	MPa	˚C
26	2.548	80
20.6	2.019	70
16.1	1.578	60
12.4	1.245	50
9.3	0.91	40
6.8	0.666	30
4.8	0.47	20
3.2	0.314	10



to	˚C	-20	-15	-10	-5	±0	+5	+10	+15	+20
Lp	Mpa	0.029	0.058	0.098	0.147	0.196	0.245	0.314	0.329	0.47
	Kg/cm²	0.3	0.6	1	1.5	2	2.5	3.2	4	4.8

6.TEMPERATURE	Operating: 0 ~ 100˚C	
	Non - operating: -30 ~ 130 ˚C	In storage
7.DISCHARGE GAS TEMP	≤100˚C	
8.SUCTION GAS SUPERHEAT	5 ~ 25˚C	
9.CLUTCH VOLTAGE	DC 8 ~ 16V	DC 12V Applications
	DC 20 ~ 28V	DC 24V Applications
10.CLUTCH WIRE -COIL TEMP	≤100˚C	
11.MOUNTING	Front to rear: ≤ ± 15˚	
	Left to right: ≤ ± 45˚	

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