



Unicla UN SERIES COMPRESSORS

With new MDM - Multi Direct Mounting System and single manifold access



UN330



UNX330

Features

Unicla UN series compressors feature the Multi Direct Mounting (MDM) system as seen on Unicla UWX model compressors, and also incorporate a new single hose manifold access at the top of section of the compressor crankcase.

This MDM system provides four mounting points on the left and right and hand sides of the compressor, making a total of 8 points as a minimum. Each point is a threaded hole which allows for excellent flexibility in engine mounting and bracket design. The UN330 has an additional four points at the bottom of the compressor crankcase.

The single hose manifold access allows for simple connection to various types of manifolds available in the market, which provides excellent cooling of the compressor body from enhanced refrigerant flow directly into the compressor working assembly.

UN330

The Unicla UN330 model is an ideal compressor choice for designers of air-conditioning systems in many large commercial vehicle applications where the system capacity is between 10 and 14 kW. The single hose manifold on the top section of the crankcase enhances refrigerant flow to the compressor which greatly assists in overall system capacity and performance. The MDM system allows for greater flexibility for single unit mounting or in a twin or triple configurations on one engine.

UNX330

The UNX330 maintains the same essential features as the UN330 with increased distance in the side mounting points and is bolt through type not MDM. The left and right hand side points increase in distance from top to bottom to 169mm.

Both compressors also feature the famous Unicla 10 cylinder swashplate design with 330cc capacity and can be operated in a clockwise or counter-clockwise direction.

Mounting

The UN330 has the Unicla multi direct mounting system (MDM) configuration with the side points 94mm and 81mm apart. The UNX330 side points are 104 mm and 169 mm apart. The design of these multiple mounting points make UN330 and UNX330 adaptable to a wide variety of petrol and large size diesel engines.

Clutches

A diverse range of clutches are available in AA, MM, B section, Polygroove, and 12 or 24 volt. The featured compressors here show the BB groove, 24 volt clutch fitted to the UN330, and MM groove 24 volt clutch fitted to the UNX330.

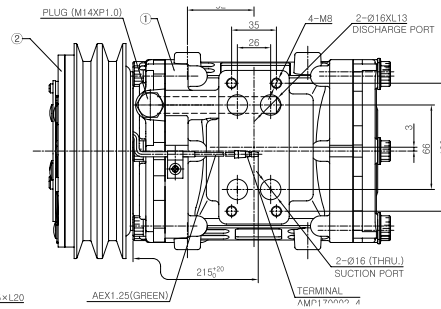
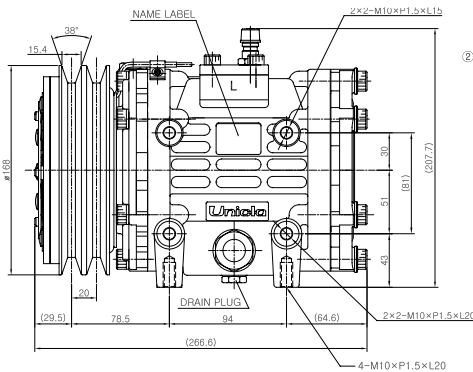
Oil Return Port

A Unicla Oil Return Port can be fitted to the hose manifold or the rear cap of the compressor. The fitting is 7/16" male flare (part number 42203-000160) and is suited to the Unicla Oil Separator part number 35401-000040.



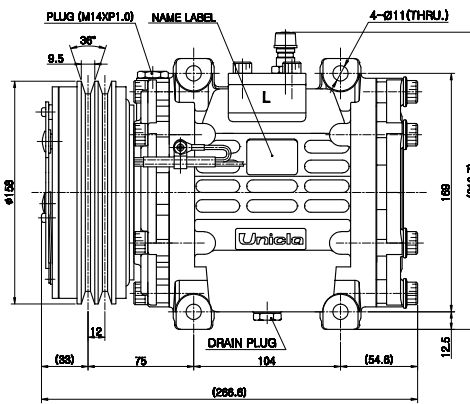
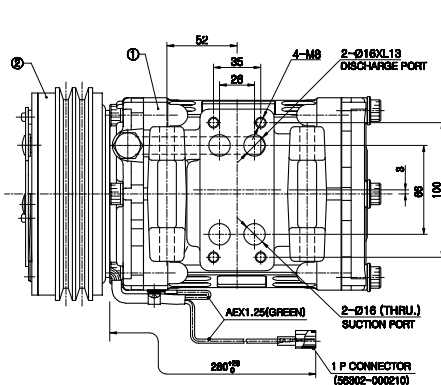
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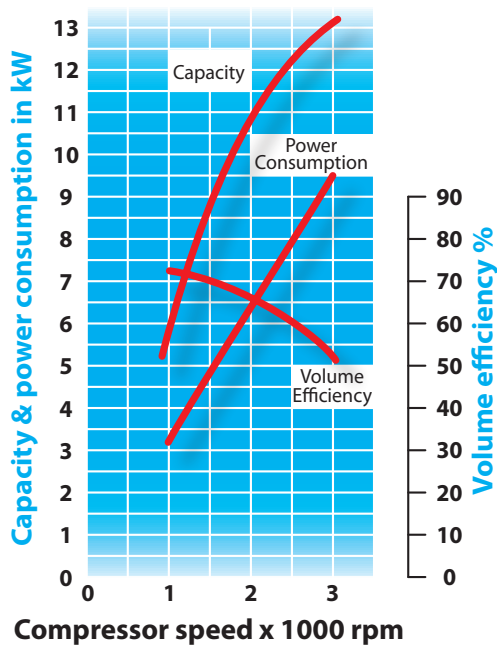
Side and top view with BB groove clutch with vertical O-ring hose ports



UNX330

Side and rear view with MM groove clutch (hose fittings not attached)

Performance data operating with R134a



Clutches available				
	Size (mm)		Power	
Type	168	178	12V	24V
AA Groove	x	x	x	x
B Groove	x	x	x	x
BB Groove	x	x	x	x
MM Groove	x		x	x
8 Groove	x		x	x

Operating Conditions	
Pressure suction	1.86kg.cm ² G
Pressure discharge	15.5kg/cm ² G
Super heat	10°C
Sub cooling	9°C

Specifications	
Model	UN/UX330
Displacement	330cc/rev.
Number of cylinders	10
Max momentary speed	4500 rpm
Lubricant	Unidap 7 (PAG)
Initial oil charge	600cc

For detailed information about Unicla recommendations on such areas as fitting compressors in special applications, measuring compressor thermal and pressure loads, and calculating extra oil requirements in larger systems, we recommend you visit our website where expert advice from Unicla engineers can be found.



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