

ULTRASTAR

SAE J2064 TYPE B

KEY FEATURES

APPLICATIONS & FLUIDS

· Bus and off-highway equipment air conditioning systems;

TECHNICAL DATA																	
111				Ô		, O,		bar		9		\bigcirc		(KQ)			
PART. REF.	HOSE SIZE		R.O.D.		O.D.		MAX W.		BURST		MIN.BEND		WEIGHT		FITTINGS		
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	Std1	Std2
H01133005*	5	- 4	3/16"	11,2	0,44	13,0	0,51	35	500	150	2170	85	3,35	217	0,15	SC+C00300-04	SF+K00400-04
H01133008*	8	- 6	5/16"	15,4	0,61	17,2	0,68	35	500	150	2170	85	3,35	336	0,23	SC+C00300-06	SF+K00400-06
H01133010*	10	- 8	13/32"	17,5	0,69	19,3	0,76	35	500	150	2170	95	3,74	385	0,26	SC+C00300-08	SF+K00400-08
H01133012*	12	- 10	1/2"	21,6	0,85	23,4	0,92	35	500	150	2170	115	4,53	533	0,36	SC+C00300-10	SF+K00400-10
H01133016*	16	- 12	5/8"	25,5	1,00	27,3	1,07	35	500	150	2170	135	5,31	676	0,45	SC+C00300-12	SF+K00400-12
H01133022*	22	- 16	7/8"	29,5	1,16	31,5	1,24	35	500	150	2170	100	3,94	724	0,49	SC+C00300-16	SF+K00400-16
H01133028*	28	- 20	1.1/8"	36,1	1,42	38,1	1,50	35	500	150	2170	120	4,72	874	0,59	SC+C00300-20	SF+K00400-20
H01133035*	35	- 24	1.3/8"	42,8	1,69	44,8	1,76	35	500	150	2170	120	4,72	1214	0,82		SF+K00400-24

CONTINUOUS SERVICE TEMPERATURE RANGE

-40 °F / 257 °F -40 °C / 125 °C

TUBE Unique molecular barrier compound made from synthetic rubber (IIR) and advanced nanomaterials

APPLICABLE SPECS SAE J2064 Type B Class I TYPE APPROVALS

muli-REFRI® MASTER

GOST-R

MAX OPERATING TEMPERATURE 140 °C, 284 °F

One steel wire braid COVER

REINFORCEMENT

High temperature and environmental resistant syntethic rubber

REFRIMASTER PLUS

SAE J2064 TYPE E

KEY FEATURES

APPLICATIONS & FLUIDS

• Air conditioning systems (Off-Highway machines, buses, ...). Mobile Refrigeration systems;

TECHNICAL DATA																			
111				Ô		,Ò,		bar				\bigcirc		(KQ)			6.2		
PART. REF.	HOSE SIZE		R.O.D.		O.D.		MAX W.		BURST		MIN.BEND		WEIGHT		FITTINGS				
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	Std1	Std2		
H09071008*	8	- 6	5/16"			12,9	0,51	35	500	250	3620	40	1,57	80	0,05	FC+C00700-06	FC+C01000-06		
H09071010*	10	- 8	13/32"			16,2	0,64	35	500	250	3620	50	1,97	140	0,09	FC+C00700-08	FC+C01000-08		
H09071013*	13	- 10	1/2"			20,6	0,81	35	500	150	2170	70	2,76	235	0,16	FC+C00750-10	FC+C01050-10		
H09071016*	16	- 12	5/8"			24,0	0,94	35	500	150	2170	80	3,15	285	0,19	FC+C00750-12	FC+C01050-12		
H09071022*	22	- 16	7/8"			31,0	1,22	35	500	150	2170	120	4,72	405	0,27	FC+C00750-16	FC+C01050-16		
CONTINUOU	CONTINUOUS SERVICE TEMPERATURE TUBE											APPLICABLE SPECS							

CONTINUOUS SERVICE TEMPERATURE RANGE -40 °F / 257 °F

-40 °C / 125 °C

MAX OPERATING TEMPERATURE 140 °C, 284 °F

COVER

REINFORCEMENT

One textile braid

veneer

High temperature and environmental resistant syntethic rubber (EPDM)

High temperature resistant thermoplastic (PA)



SAE J2064 Type E Class I



Global Sales & Marketing Office Suite 9A, 111 Picadilly, Manchester, M1 2HY Phone: +44(0)161 871 1130 Fax: +44 (0)161 247 7862 Email: info@manuli-hydraulics.com



※ REFRIGERATION

SUPERIOR PRODUCTS FOR REFRIGERATION AND CLIMATE CONTROL APPLICATIONS

ULTRA & STAR

Refri Master Duus









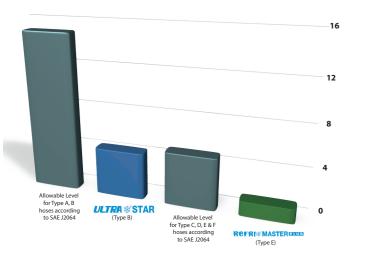
Email: refrigeration@manuli-hydraulics.com



TWO OPTIONS - INFINITE POSSIBILITIES

In the refrigeration and climate control industries applications vary widely, but the standards of quality required are uniformly high. Manuli Refri Division have produced refrigeration hoses which are some of the best and most versatile products on the market, offering two distinct solutions, UltraStar™ and RefriMaster[™] Plus. Both ranges share the distinction of having extremely low permeability rates - far exceeding the requirements of SAE J2064 - and having a wide range of standard and customised fitting solutions, including crimped, reusable and field attachable options.

Comparison of Refrigerant Permeation Through Hoses



ULTRA * STAR

A hydraulic style (Type B - SAE J2064), rubber hose with superior permeability performance.

- Suitable for refrigeration and climate control applications
- Excellent structural strength
- Unique nano-material compound allows superb performance, giving a Type B hose performance in excess of Type C, D, E & F requirements (SEA J2064)
- Available in a wide range of sizes from DN 5 to DN 35
- Excellent flexibilty and low minimum bend radius
- Optional crimped and reuasable fitting solutions

High temperature resistance, synthetic rubber outer cover

> Wire braid reinforcement

compound made from advanced nano-materials

FITTING SOLUTIONS FOR ULTRASTAR

ILIMANUII"- ULTRA *** STAR





standard The factorv solution crimped fitting designed for controlled and repeatable crimping operations

STAR-FIT[™]

Reusable field and attachable fitting solution designed to enable reduced maintenance costs and easy assembly both in the factory and in the field

SUPERIOR PRODUCTS FOR REFRIGERATION AND CLIMATE CONTROL APPLICATIONS

FITTING SOLUTIONS FOR REFRIMASTER PLUS

Unique molecular barrier synthetic rubber (IIR) and



FRIGOCLIC[™]

A single insert with two distinct closing options to suit both the factory assembly and field service markets

A complete range of crimped fittings designed for repeatable, controlled crimping operations



Field attachable clip ideally suited to facilitate complex or bespoke routings and maintenance in the field

manuli-Refrie Master Deve

Refri[®] MASTER PLUS

Compact construction style (Type E - SAE J2064) hose with high flexibility and exceptional permeability performance.

- Suitable for refrigeration and climate control applications
- Excellent compatability with common refrigerant gases - R134a, R404a, R407C, R401A & HFO 1234yf
- Extremely low permeability rate across all sizes
- Improved flexibility and minimum bending radius
- High temperature resistance up to 140°C
- Great resistance to kinking and collapse
- Optional crimped and field-attachable solutions

Synthetic rubber outer cover made from an improved EPDM based compound

> Textile braid reinforcement

> > Synthetic rubber inner tube with a thermoplastic (PA) veneer

