

VIKING PUMP CANADA	TECHNICAL DATA SHEET		FORM	TDS-480
	ROTARY GEAR POSITIVE DISPLACEMENT PUMPS		PAGE	1 OF 1
	SERIES 480 – AMMONIA PUMPS		ISSUE	1/1/2017



THE SERIES 480 IS DESIGNED TO PROVIDE SAFE, EFFICIENT HANDLING OF REFRIGERATION AMMONIA.

THESE PUMPS ARE SUPPLIED WITH A DOUBLE MECHANICAL SEAL WHICH IS PRESSURIZED BY REFRIGERATION OIL STORED IN AN OIL RESERVOIR LOCATED DIRECTLY ABOVE THE SEAL CHAMBER.

SEALING WITH OIL INSTEAD OF AMMONIA PROMOTES LONGER SEAL LIFE AND ELIMINATES LEAKAGE OF AMMONIA. OUR "GEAR-WITHIN-A-GEAR" PUMPING PRINCIPLE PROVIDES A CONTINUOUS, NON-PULSATING FLOW OF LIQUID.

CAPACITIES – TO 60 USGPM (227 L/M)
DIFFERENTIAL PRESSURES – TO 75 PSI (518 kPa)

STANDARD CONSTRUCTION

CASING	HEAD AND BRACKET	ROTOR	IDLER	ROTOR SHAFT	IDLER PIN	IDLER AND CASING BUSHINGS		SHAFT SEAL	OPTIONAL RETURN-TO-TANK RELIEF VALVE (1)
						STANDARD	OPTION		
IRON	IRON	IRON	IRON	STEEL	STEEL	CARBON GRAPHITE	-	DOUBLE NEOPRENE	IRON

SPECIFICATIONS

MODEL NO.	PORT SIZE	NOMINAL PUMP RATING AT 50 PSI 345 KPA			MOTOR HP REQUIRED BASED AT RATED SPEED 100 SSU/21 CS LIQUID				MAXIMUM HYDRO-STATIC PRESSURE		MAX. REC. DISCHARGE PRESSURE OVER 100 SSU		MAXIMUM RECOMM. TEMPERATURE (PACKED)		APPROX. SHIPPING WEIGHT	
					50 PSI 345 kPa		100PSI 690kPa									
	INCH	GPM	LPM	RPM	HP	KW	HP	KW	PSI	kPa	PSI	KPa	°F	°C	LBS	KG
J-480	1 ½ NPT	11	42	280	0.50	0.37	0.60	0.45	75	517	-30	-34	115	52	113	51
K-480	2 NPT	22	83	280	0.75	0.56	1.00	0.75	75	517	-30	-34	130	59	116	53
KK-480	2 NPT	30	114	280	1.00	0.75	1.50	1.12	75	517	-30	-34	135	61	121	55
L-480	2 NPT	50	189	280	1.50	1.12	2.00	1.49	75	517	-30	-34	185	84	168	76
LQ-480	3 ANSI	50	189	280	1.50	1.12	2.00	1.49	75	517	-30	-34	195	89	179	81
LL-480	3 ANSI	60	227	280	2.00	1.49	3.00	2.24	75	517	-30	-34	220	100	203	92

- INTERNAL RELIEF IS NOT RECOMMENDED FOR THIS SERIES – USE AN AMMONIA RATED INLINE RELIEF VALVE.
- PUMPS CAN BE USED TO -60°F IF PROVISION IS MADE FOR PROVIDING HEAT TO OIL IN SEAL CHAMBER.
- FOR PUMP SELECTION, CONSULT FACTORY FOR RECOMMENDATIONS.