



OIL CHARGE	
U.S. GALS (LBS)	
SINGLE FILTER	DOUBLE FILTER
46 (345)	49 (368)

- NOTES
- ALL DIMENSIONS ARE IN INCHES.
 - A DISCHARGE STOP/CHECK VALVE TO BE SHIPPED LOOSE. MOUNT AS CLOSE TO CONDENSER AS POSSIBLE. IN A HORIZONTAL LINE, VALVE STEM MUST BE IN THE VERTICAL POSITION AS SHOWN. VALVES SIZED PER CONDITIONS.
 - SEPARATE DISCHARGE STOP & CHECK VALVES ARE OPTIONAL AND SHIPPED LOOSE.
 - DUAL RELIEF VALVE TO BE SHIPPED LOOSE. FOR AMMONIA: VALVE IS SET AT 250 PSIG. IT HAS 1/2" INLET X 1" OUTLET CONNECTIONS RATED FOR 57.7 LBS AIR/MIN. FOR R-22: VALVE IS SET AT 300 PSIG. IT HAS 1" INLET X 1 1/4" OUTLET CONNECTIONS RATED FOR 101.6 LBS AIR/MIN. FOR R-507: VALVE IS SET AT 300 PSIG. IT HAS 1 1/4" INLET X 1 1/2" OUTLET CONNECTIONS RATED FOR 138.1 LBS AIR/MIN. FOR R-134a: VALVE IS SET AT 300 PSIG. IT HAS 1/2" INLET X 1" OUTLET CONNECTIONS RATED FOR 68.6 LBS AIR/MIN.
- FOR ALL OTHER REFRIGERANTS CONTACT THE FACTORY
- DASHED MOTOR (FRAME 444 TS) IS SHOWN FOR REFERENCE ONLY. SEE TABLE 2 AND MOTOR DATA SHEET FOR DETAILS.
 - FLANGE BOLT HOLES STRADDLE CENTERLINES UNLESS OTHERWISE NOTED.
 - ALL PRESSURE GAUGES WILL SHIP LOOSE.
 - SOME DETAILS HAVE BEEN REMOVED FOR CLARITY.
 - SHIPPING HEIGHT WITHOUT ACTUATOR. REMOVAL OF ACTUATOR SHAFT RESULTS IN A TWO INCH REDUCTION OF HEIGHT.

* THIS DRAWING IS SUITABLE FOR COUNTER-CLOCKWISE 280mm VSS COMPRESSOR VSS 751 AND 901
 Ø 24.00 OIL SEPARATOR
 HIGH STAGE, BOOSTER, OR SWING
 OIL HEAT EXCH - FLAT PLATE THERMOSYPHON
 SIZES 5X12 THRU 10X20
 ECON-D-MIZER (STD OR OVERSIZED CONNECTIONS)
 SINGLE OR DUAL FILTERS

CONNECTION SCHEDULE			
I.D.	SIZE	CONNECTION	FUNCTION
A	SEE CHART A	BUTT WELD (SCH. 40)	SUCTION INLET
B	4.00	BUTT WELD (SCH. 40)	DISCHARGE OUTLET
D	.500-14	IPT	PRESSURE RELIEF SEE NOTE 4
E	.500-14	IPT	OIL DRAIN & CHARGER WHEN UNIT NOT RUNNING
F	.250-18	IPT	OIL CHARGER WHEN UNIT IS RUNNING
G	1.50-300#	ANSI FLANGE	STANDARD ECON-D-MIZER INLET
	2.50-300#	ANSI FLANGE	OVERSIZE ECON-D-MIZER INLET
H	.250-18	IPT	TRANSDUCER BLOCK/BLEED
J	1.500	SOC WELD	REFRIG INLET 5X12 AND 5X20 HEAT EXCH
	2.500	SOC WELD	REFRIG INLET 10X20 HEAT EXCH
K	1.500	SOC WELD	REFRIG OUTLET 5X12 AND 5X20 HEAT EXCH
	2.500	SOC WELD	REFRIG OUTLET 10X20 HEAT EXCH

SHIPPING WEIGHT

(ADD EACH TABLE FOR ESTIMATED SHIPPING WEIGHT)

TABLE 1		TABLE 4	
SUCTION SIZE	SEPARATOR, SUCTION & PIPING (LBS)	OPTIONAL	
5"	3140	DUAL FILTERS	+75 LBS
6"	3230		

TABLE 2			
COMPRESSOR SIZE	WEIGHT (LBS)	NEMA FRAMES TYPICAL MOTORS	
VSS-751	1600	FRAME (ODP)	WEIGHT (LBS)
VSS-901	1650	254T	260
		365TS	780
		256T	270
		404TS	900
		284T	360
		405TS	975
		286T	400
		444TS	1300
		324TS	480
		445TS	1475
		326TS	540
		447TS	1770
		364TS	725
		449TS	2135

TABLE 3	
MODEL APPROX. WT. (LBS)	
FP10X20	185 MAX
FP5X20	70 MAX

CHART A

(REFER TO ORDER COPY FOR LINE SIZE)

SUCTION LINE SIZE	STD ARRANGEMENT COMBINED STOP/CHK VALVE	
	AMM.	HALD
5.00	8.4	8.4
6.00	11.75	13.25

SUCTION LINE SIZE	OPTL ARRANGEMENT SEPARATE STOP & CHK VALVES	
	AMM.	HALD
5.00	13.8	21.0
6.00	21.3	25.2

FOR BOTH STD OPT ARRANGEMENT

SUCTION LINE SIZE	BB	CC	DD
	5.00	95.00	80
6.00	97.50	82.5	89.25

R2	ADDED SHIPPING HEIGHT & NOTE 9 ECN:S050284	JDS	MGS	10/7/05
R1	CONN "A" WAS "DISCHARGE" CONN. "B" WAS INLET. ECN:S050118	ACW	SAW	5/10/05
R0	ECN: S040286	RPT	RPK	1/3/05
SYM	REVISION	DRAWN BY	APPR. BY	DATE

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DRAWN BY: RPT	CHECKED BY: DWP	SCALE: NTS
REDRAWN BY:	APPROVED BY: RPK	DATE: 1/3/05
TITLE: GEN DIMENSIONS 280mm VSS-751 AND 901 W/Ø 24.0 SEPARATOR		
FOR: THERMOSYPHON - FLATPLATE		
DRAWING NO. 27755-4 R2		