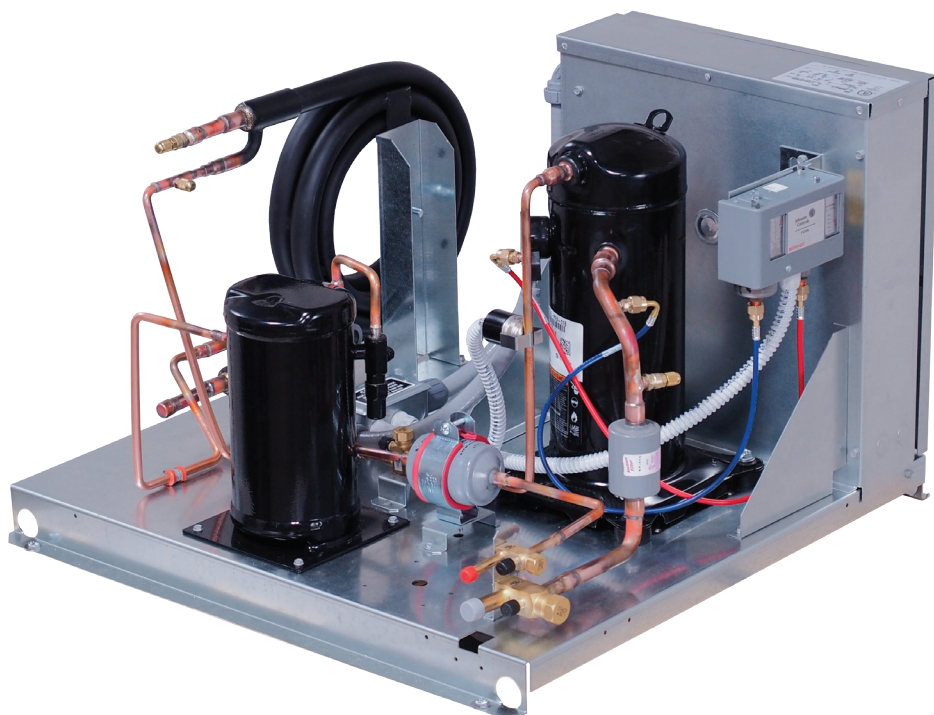


KRAMER

NEXT-GEN WC SERIES™



1/2 to 6 HP
Indoor Water-Cooled Condensing Units

COMPACT AND EFFICIENT WATER-COOLED UNITS

Next-Gen WC Series™ Water-Cooled Condensing Units capitalize on the Next-Gen MiniCon's award-winning design success. This exciting product offering features greater serviceability, increased unit efficiency, and is compatible for use with multiple refrigerants. The improvements start with mechanically formed pre-bent tubing for reduced leak potential, high efficiency water cooled coaxial condenser and heat exchange, base mounted shut-off valves, a large electrical control panel with removable door and abundant room for standard components and system accessories along with color-coded and numbered point-to-point wiring that assist in easy service and unit maintenance.

MODEL NOMENCLATURE							
K	W	O	500	E	4S	E	A
Brand	Style	Compressor	Horsepower	Temperature	Refrigerant	Voltage Code	Vintage
K = Kramer	W = Water-Cooled	H = Hermetic O = Scroll	500 = 5HP	L = Low M = Medium E = Ext. Medium	4S = Multiple Refrigerants	D = 208-230/1/60 E = 208-230/3/60 G = 460/3/60	

FEATURES AND OPTIONS

● Standard ○ Optional ⊖ Not Available

	Description	KWH	KWO
Cabinet	Galvanized steel frame		●
	316 stainless steel		○
	Large control panel for power and control circuits		●
	Hinged/removable control panel door		●
	Two tier stacking rack		○
Compressor	Hermetic	●	⊖
	Scroll	⊖	●
Electrical	Crankcase heater		○
	Compressor contactor (1Ø or 3Ø), start kit (1Ø)		●
	Control transformer (460V to 230V) as required		●
	Adjustable high and low pressure controls		●
	Color-coded wiring for maximum serviceability		●
	Thru the door non-fused disconnect switch		○
	External fused disconnect (loose or mounted)		○
	Pump down toggle switch		○
	Phase loss monitor		○
High Efficiency Condenser	High efficiency water cooled coaxial condenser		●
	Cupronickel heat exchanger and water piping		○
	Water regulating valve		○
	Cupronickel water regulating valve		○
Piping Components	Base mounted liquid and suction shut-off valves		●
	Suction line (piping only)		●
	Suction kit (piping and sealed suction filter)		○
	Suction line accumulator		○
	Replaceable core liquid filter		○
	Replaceable core suction filter		○
	*Liquid line kit		●
	Oil separator		○
	Liquid line solenoid		○
Receiver	Receiver isolation valve		●
	Pressure relief plug		●
	Pressure relief valve		○
	Oversized receivers		○
	Heated and insulated receivers		○
Defrost Provisions	^Electronic air defrost time clock for medium temps.		●
	Mechanical defrost timer		○
	50 HZ defrost timers with or without contactors		○
	Low Temperature Electric defrost ¹	⊖	●
	Medium Temperature Electric defrost ¹	○	○
	Paragon mechanical timer in lieu of electronic timer		
	Timer shipped loose in enclosure		○
	CPC timer		○
Testing	UL and C-UL listed		●
	Hydrogen leak and dielectric tested before shipping		●
	Dry nitrogen shipping charge (25 to 35 PSI)		●

* Liquid line kit includes piping, filter drier, sight glass with moisture indicator.

¹ Electric defrost kit is included on low temperature models & optional for medium temperature models - see electrical data page 9.

^ Standard on extended medium temperature models only.

PERFORMANCE @ 105°F CONDENSING TEMPERATURE

HERMETIC MODELS // EXTENDED MEDIUM TEMPERATURE // R404A, R407C, R448A, R449A

Model No.		BTUH Capacity @ Suction Temperature (°F)												GPM Req. for 85°F EWT [^]	
		30°	25°	20°	15°	10°	0°	-5°	-10°	-15°	-20°	-25°	-30°	GPM GAL/ MIN	Water DP (PSI)
R404A	KWH055E4S**	6,450	5,750	5,110	4,520	3,980	3,010	2,560	2,150	1,745	1,355	979	–	1.9	1.2
	KWH080E4S**	8,180	7,310	6,490	5,740	5,040	3,810	3,280	2,820	2,410	2,060	1,770	–	2.3	1.7
	KWH090E4S**	10,200	9,160	8,190	7,280	6,430	4,900	4,220	3,580	3,000	2,470	1,985	–	3.0	1.2
	KWH100E4S**	10,650	9,570	8,550	7,590	6,690	5,080	4,360	3,690	3,080	2,530	2,040	–	2.9	1.1
	KWH125E4S**	13,900	12,600	11,350	10,100	8,970	6,870	5,920	5,060	4,280	3,600	3,010	–	3.9	1.8
R407C	KWH055E4S**	6,040	5,270	4,570	3,940	3,380	2,450	–	–	–	–	–	–	1.7	1.0
	KWH080E4S**	7,300	6,400	5,590	4,850	4,180	3,010	–	–	–	–	–	–	2.0	1.4
	KWH090E4S**	9,570	8,400	7,330	6,360	5,490	3,960	–	–	–	–	–	–	2.7	0.9
	KWH100E4S**	9,720	8,600	7,570	6,630	5,770	4,220	–	–	–	–	–	–	2.7	0.9
	KWH125E4S**	12,900	11,400	10,000	8,790	7,660	5,600	–	–	–	–	–	–	3.5	1.5
R448A, R449A	KWH055E4S**	6,350	5,550	4,810	4,160	3,570	2,580	2,170	1,805	–	–	–	–	1.8	1.1
	KWH080E4S**	8,030	7,010	6,080	5,240	4,480	3,230	2,750	2,360	–	–	–	–	2.2	1.6
	KWH090E4S**	10,050	8,850	7,730	6,710	5,780	4,200	3,560	3,020	–	–	–	–	2.9	1.1
	KWH100E4S**	9,680	8,670	7,720	6,830	5,990	4,480	3,800	3,170	–	–	–	–	2.7	0.9
	KWH125E4S**	12,700	11,450	10,250	9,100	8,030	6,060	5,170	4,350	–	–	–	–	3.6	1.6

* Asterisk represents a variable character based upon voltage and vintage ordered. See nomenclature page for details.

[^] GPM (gallons per minute) and pressure drop @ highest evap rating and 85° F entering water temperature (EWT).

DP = Differential pressure flow measurement (DP Flow)

PERFORMANCE @ 105°F CONDENSING TEMPERATURE

SCROLL MODELS // EXTENDED MEDIUM TEMPERATURE // R404A, R407A

Model No.		BTUH Capacity @ Suction Temperature (°F)												GPM Req. for 85°F EWT [^]	
		45°	35°	30°	25°	20°	15°	10°	0°	-10°	-15°	-20°	-25°	GPM GAL/ MIN	Water DP (PSI)
R404A	KWO060M4S**	11,250	9,120	8,170	7,280	6,470	5,720	5,040	3,880	2,990	–	–	–	2.7	1.1
	KWO080M4S**	14,100	11,200	9,980	8,860	7,860	6,950	6,130	4,700	3,470	–	–	–	3.4	1.6
	KWO100M4S**	16,350	12,850	11,400	10,100	9,000	8,010	7,120	5,580	4,180	–	–	–	3.8	2.0
	KWO130E4S**	17,350	14,550	13,000	11,650	10,400	9,250	8,220	6,450	5,020	4,420	3,880	3,390	4.3	2.2
	KWO150E4S**	20,400	17,050	15,250	13,650	12,200	10,850	9,640	7,560	5,890	5,180	4,540	3,970	5.0	3.0
	KWO180E4S**	23,600	19,800	17,750	15,850	14,150	12,600	11,200	8,790	6,840	6,020	5,280	4,620	5.8	1.0
	KWO200E4S**	28,700	24,100	21,600	19,300	17,200	15,300	13,600	10,700	8,330	7,330	6,430	5,630	7.0	1.5
	KWO250E4S**	32,200	26,900	24,200	21,600	19,300	17,150	15,250	11,950	9,330	8,200	7,200	6,300	7.8	1.8
	KWO300E4S**	43,300	36,100	32,300	28,900	25,800	23,000	20,400	16,050	12,500	11,000	9,650	8,450	10.5	2.8
	KWO350E4S**	47,500	39,800	35,600	31,900	28,400	25,300	22,500	17,650	13,750	12,100	10,650	9,300	11.6	3.3
	KWO400E4S**	54,100	45,200	40,500	36,200	32,300	28,800	25,600	20,100	15,650	13,750	12,100	10,600	13.1	1.8
	KWO450E4S**	60,400	50,500	45,200	40,400	36,100	32,100	28,600	22,400	17,450	15,350	13,500	11,800	14.6	2.2
	KWO500E4S**	67,000	55,000	49,800	44,900	40,300	36,200	32,400	25,800	20,400	18,000	15,900	14,000	17.5	3.0
	KWO600E4S**	81,500	67,000	60,500	54,500	48,800	43,800	39,200	31,300	24,800	22,000	19,500	17,200	20.8	4.1
R407A	KWO060M4S**	10,850	8,750	7,800	6,930	6,140	5,420	4,780	3,730	3,000	–	–	–	2.6	1.0
	KWO080M4S**	12,650	10,450	9,440	8,480	7,580	6,730	5,940	4,510	3,290	–	–	–	3.2	1.4
	KWO100M4S**	14,150	11,950	10,900	9,910	8,950	8,020	7,120	5,440	3,870	–	–	–	3.7	1.8
	KWO130E4S**	16,600	13,450	12,050	10,850	9,720	8,710	7,810	6,220	4,860	4,220	3,610	–	4.1	2.1
	KWO150E4S**	19,800	16,050	14,400	12,950	11,600	10,400	9,320	7,430	5,800	5,050	4,320	–	4.9	2.9
	KWO180E4S**	22,600	18,300	16,450	14,750	13,250	11,900	10,650	8,480	6,620	5,760	4,930	–	5.7	1.0
	KWO200E4S**	27,600	22,400	20,000	17,900	15,950	14,150	12,550	9,700	7,310	6,250	5,260	–	6.8	1.4
	KWO250E4S**	30,800	24,900	22,400	20,100	18,050	16,150	14,500	11,550	9,020	7,850	6,710	–	7.6	1.7
	KWO300E4S**	40,600	32,900	29,500	26,500	23,800	21,300	19,100	15,250	11,900	10,350	8,860	–	10	2.6
	KWO350E4S**	46,100	37,300	33,500	29,900	26,700	23,700	20,900	16,100	12,050	10,200	8,490	–	11.3	3.2
	KWO400E4S**	50,600	40,900	36,800	33,000	29,600	26,600	23,800	18,950	14,800	12,900	11,050	–	12.5	1.7
	KWO450E4S**	57,500	46,500	41,800	37,500	33,700	30,200	27,100	21,600	16,850	14,650	12,550	–	14.2	2.1
	KWO500E4S**	62,100	52,000	47,200	42,600	38,300	34,200	30,400	23,600	17,900	15,550	13,500	–	16.1	2.6
	KWO600E4S**	76,500	63,800	57,900	52,300	47,000	42,100	37,400	29,100	22,200	19,350	16,750	–	19.5	3.6

20°F Superheat Maximum

* Asterisk represents a variable character based upon voltage and vintage ordered. See nomenclature page for details.

[^] GPM (gallons per minute) and pressure drop @ highest evap rating and 85° F entering water temperature (EWT).

DP = Differential pressure flow measurement (DP Flow)

PERFORMANCE @ 105°F CONDENSING TEMPERATURE

SCROLL MODELS // EXTENDED MEDIUM TEMPERATURE // R407C, R448A, R449A

Model No.		BTUH Capacity @ Suction Temperature (°F)												GPM Req. for 85° F EWT [^]	
		45°	35°	30°	25°	20°	15°	10°	0°	-10°	-15°	-20°	-25°	GPM GAL/ MIN	Water DP (PSI)
R407C	KWO060M4S**	10,200	8,230	7,370	6,570	5,830	5,150	4,530	3,410	2,420	–	–	–	2.5	1.0
	KWO080M4S**	12,150	9,860	8,840	7,890	7,010	6,190	5,450	4,130	3,030	–	–	–	3.1	1.3
	KWO100M4S**	14,213	11,531	10,337	9,224	8,196	7,237	6,371	4,827	3,541	–	–	–	3.6	1.7
	KWO130E4S**	16,100	13,250	11,950	10,700	9,570	8,490	7,470	5,570	3,780	–	–	–	4.0	2.1
	KWO150E4S**	19,200	15,800	14,250	12,800	11,450	10,150	8,920	6,660	4,530	–	–	–	4.7	2.8
	KWO180E4S**	21,900	18,050	16,250	14,600	13,050	11,600	10,200	7,600	5,170	–	–	–	5.4	0.9
	KWO200E4S**	26,400	21,700	19,600	17,600	15,750	13,950	12,300	9,180	6,260	–	–	–	6.5	1.2
	KWO250E4S**	29,800	24,500	22,100	19,850	17,750	15,750	13,850	10,350	7,060	–	–	–	7.3	1.5
	KWO300E4S**	40,100	32,900	29,700	26,700	23,800	21,200	18,650	13,950	9,510	–	–	–	9.6	2.2
	KWO350E4S**	44,500	36,600	33,000	29,600	26,500	23,500	20,700	15,450	10,550	–	–	–	10.6	2.6
	KWO400E4S**	49,800	41,000	37,000	33,200	29,700	26,300	23,200	17,300	11,800	–	–	–	11.9	1.4
	KWO450E4S**	55,200	45,400	41,000	36,800	32,900	29,200	25,700	19,150	13,050	–	–	–	13.2	1.7
	KWO500E4S**	64,400	54,100	49,200	44,600	40,200	36,000	32,000	25,000	19,100	–	–	–	16.5	2.4
	KWO600E4S**	78,100	65,400	59,400	53,800	48,500	43,400	38,700	30,300	23,200	–	–	–	19.7	3.3
R448A, R449A	KWO060M4S**	10,800	8,880	8,000	7,180	6,410	5,710	5,050	3,920	3,010	–	–	–	2.7	1.1
	KWO080M4S**	13,050	10,650	9,580	8,580	7,650	6,790	6,010	4,650	3,590	–	–	–	3.2	1.5
	KWO100M4S**	15,500	12,600	11,300	10,100	9,010	7,990	7,070	5,500	4,300	–	–	–	3.7	1.9
	KWO130E4S**	17,450	15,750	12,500	11,150	9,980	8,950	8,050	7,240	5,850	4,600	3,970	–	4.0	2.0
	KWO150E4S**	18,950	15,050	13,400	12,000	10,800	9,690	8,720	7,040	5,530	4,780	4,000	–	4.8	2.7
	KWO180E4S**	21,600	17,150	15,300	13,700	12,300	11,050	9,930	8,020	6,310	5,450	4,550	–	5.5	0.9
	KWO200E4S**	26,100	20,700	18,500	16,550	14,850	13,350	12,000	9,700	7,630	6,590	5,510	–	6.6	1.3
	KWO250E4S**	29,300	23,300	20,800	18,600	16,650	15,000	13,500	10,900	8,560	7,400	6,190	–	7.4	1.6
	KWO300E4S**	40,600	33,400	30,200	27,300	24,500	21,900	19,550	15,250	11,500	9,750	8,110	–	10.1	2.7
	KWO350E4S**	45,000	36,600	32,800	29,400	26,200	23,300	20,700	16,200	12,750	11,400	10,300	–	11.2	3.2
	KWO400E4S**	51,500	42,400	38,400	34,600	31,100	27,800	24,800	19,350	14,600	12,400	10,300	–	12.7	1.7
	KWO450E4S**	56,800	46,800	42,300	38,200	34,300	30,700	27,400	21,300	16,050	13,650	11,350	–	14.1	2.0
	KWO500E4S**	62,670	52,100	47,250	42,680	38,490	34,550	30,940	24,530	19,110	16,810	14,740	–	16.3	2.4
	KWO600E4S**	77,130	63,880	57,910	52,350	47,170	42,450	37,980	30,160	23,660	20,930	18,350	–	19.7	3.3

20°F Superheat Maximum

* Asterisk represents a variable character based upon voltage and vintage ordered. See nomenclature page for details.

[^] GPM (gallons per minute) and pressure drop @ highest evap rating and 85° F entering water temperature (EWT).

DP = Differential pressure flow measurement (DP Flow)

PERFORMANCE @ 105°F CONDENSING TEMPERATURE

SCROLL MODELS // LOW TEMPERATURE // R404A, R407A

Model No.		BTUH Capacity @ Suction Temperature (°F)									GPM Req. for 85°F EWT [^]	
		0°	-5°	-10°	-15°	-20°	-25°	-30°	-35°	-40°	GPM GAL/ MIN	Water DP (PSI)
R404A	KWO100L4S**	4,650	3,980	3,480	3,040	2,660	2,340	2,060	1,820	1,620	1.6	0.5
	KWO130L4S**	6,320	5,520	4,800	4,160	3,590	3,100	2,680	2,340	2,070	2.1	0.7
	KWO160L4S**	7,570	6,680	5,860	5,120	4,450	3,850	3,320	2,870	2,480	2.4	0.9
	KWO230L4S**	11,850	10,450	9,190	8,080	7,080	6,170	5,340	4,550	3,780	3.8	1.9
	KWO250L4S**	13,600	12,100	10,800	9,530	8,410	7,400	6,480	5,640	4,880	4.4	2.3
	KWO300L4S**	15,100	13,400	11,900	10,600	9,360	8,240	7,230	6,300	5,440	4.7	2.6
	KWO350L4S**	18,800	16,800	14,900	13,200	11,600	10,200	8,980	7,820	6,770	5.9	3.9
	KWO400L4S**	21,900	19,400	17,200	15,100	13,200	11,500	9,980	8,590	7,340	6.8	1.4
	KWO500L4S**	26,600	23,700	21,000	18,600	16,400	14,400	12,600	11,000	9,560	8.3	2
	KWO600L4S**	31,300	27,900	24,800	22,000	19,500	16,300	15,100	13,100	11,300	9.5	2.6
R407A	KWO100L4S**	4,190	3,690	3,250	2,860	2,530	2,240	1,985	1,765	1,565	1.6	0.5
	KWO130L4S**	5,920	5,160	4,480	3,870	3,340	2,880	2,500	2,190	1,950	1.9	0.6
	KWO160L4S**	7,010	6,130	5,330	4,610	3,970	3,410	2,930	2,530	2,200	2.1	0.7
	KWO230L4S**	10,850	9,590	8,460	7,450	6,540	5,720	4,970	4,270	3,590	3.4	1.6
	KWO250L4S**	12,200	10,800	9,560	8,400	7,340	6,380	5,520	4,750	4,060	4.0	2.1
	KWO300L4S**	13,550	11,750	10,200	8,810	7,610	6,560	5,630	4,810	4,070	4.3	2.2
	KWO350L4S**	16,950	14,700	12,750	11,000	9,480	8,160	7,000	5,980	5,080	5.3	3.3
	KWO400L4S**	20,400	18,050	15,850	13,800	11,900	10,200	8,740	7,560	6,700	6.3	1.2
	KWO500L4S**	24,800	22,100	19,450	17,000	14,800	12,850	11,150	9,790	8,770	7.6	1.7
	KWO600L4S**	29,100	25,700	22,700	19,800	17,300	15,000	13,100	11,500	10,300	9.0	2.4

* Asterisk represents a variable character based upon voltage and vintage ordered. See nomenclature page for details.

[^] GPM (gallons per minute) and pressure drop @ highest evap rating and 85° F entering water temperature (EWT).

DP = Differential pressure flow measurement (DP Flow)

PERFORMANCE @ 105° F CONDENSING TEMPERATURE

SCROLL MODELS // LOW TEMPERATURE // R407C, R448A, R449A

Model No.		BTUH Capacity @ Suction Temperature (°F)									GPM Req. for 85° F EWT [^]	
		0°	-5°	-10°	-15°	-20°	-25°	-30°	-35°	-40°	GPM GAL/ MIN	Water DP (PSI)
R407C	KWO100L4S**	4,000	3,520	3,100	2,740	2,430	2,160	1,925	1,725	1,550	1.4	0.4
	KWO130L4S**	5,570	4,870	4,230	3,660	3,160	2,730	2,370	2,080	1,860	1.8	0.6
	KWO160L4S**	6,640	5,820	5,060	4,380	3,780	3,250	2,790	2,410	2,100	2.2	0.7
	KWO230L4S**	10,100	8,850	7,800	6,890	6,100	5,380	4,700	4,010	3,280	3.2	1.5
	KWO250L4S**	11,460	10,090	8,910	7,830	6,840	5,950	5,150	4,420	3,730	3.7	1.9
	KWO300L4S**	13,000	11,300	9,770	8,450	7,290	6,280	5,390	4,600	3,890	4.1	2.0
	KWO350L4S**	16,200	14,100	12,200	10,500	9,080	7,810	6,700	5,730	4,860	5.1	3.1
	KWO400L4S**	19,550	17,350	15,200	13,200	11,400	9,750	8,350	7,240	6,440	6.0	1.1
	KWO500L4S**	23,800	21,100	18,600	16,300	14,200	12,300	10,600	9,350	8,400	7.4	1.6
	KWO600L4S**	27,400	24,300	21,400	18,700	16,300	14,200	12,300	10,900	9,840	8.5	2.1
R448A, R449A	KWO100L4S**	4,420	3,890	3,430	3,030	2,690	2,380	2,110	1,865	1,635	1.5	0.4
	KWO130L4S**	6,160	5,410	4,720	4,100	3,550	3,070	2,660	2,310	2,040	1.9	0.6
	KWO160L4S**	7,290	6,430	5,630	4,910	4,250	3,670	3,160	2,720	2,350	2.1	0.7
	KWO230L4S**	11,050	9,750	8,590	7,570	6,670	5,870	5,130	4,440	3,770	3.5	1.6
	KWO250L4S**	12,800	11,350	10,050	8,840	7,760	6,780	5,900	5,110	4,400	4.0	2.0
	KWO300L4S**	14,150	12,550	11,150	9,830	8,660	7,590	6,630	5,760	4,970	4.4	2.3
	KWO350L4S**	17,700	15,700	13,900	12,250	10,750	9,440	8,240	7,160	6,200	5.4	3.4
	KWO400L4S**	20,900	18,500	16,300	14,200	12,400	10,800	9,390	8,170	7,140	6.5	1.3
	KWO500L4S**	25,700	22,700	20,100	17,600	15,500	13,500	11,800	10,300	9,050	8.0	1.9
	KWO600L4S**	30,800	27,300	24,200	21,300	18,800	16,500	14,400	12,600	11,000	9.6	2.6

* Asterisk represents a variable character based upon voltage and vintage ordered. See nomenclature page for details.

[^] GPM (gallons per minute) and pressure drop @ highest evap rating and 85° F entering water temperature (EWT).

DP = Differential pressure flow measurement (DP Flow)

ELECTRICAL DATA // ALL MODELS

Model No.	Comp. Model No.	Compressor					
		208-230V/1/60		208-230V/3/60		460V/3/60 Hz	
		RLA	LRA	RLA	LRA	RLA	LRA

EXTENDED MEDIUM TEMPERATURE HERMETIC

KWH055E4S**	RST45C1E	4.6	26.5	–	–	–	–
KWH080E4S**	RST55C1E	6.1	33.7	–	–	–	–
KWH090E4S**	RST64C1E	8.1	43.0	–	–	–	–
KWH100E4S**	RST70C1E	6.9	46.0	4.9	36.0	–	–
KWH125E4S**	RST97C1E	9.0	51.0	5.4	36.0	–	–

EXTENDED MEDIUM TEMPERATURE SCROLL

KWO060M4S**	ZB06KAE	5.4	36.0	3.1	38.9	–	–
KWO080M4S**	ZB07KAE	5.9	48.9	3.4	38.9	–	–
KWO100M4S**	ZB08KAE	7.2	46.7	3.6	38.9	–	–
KWO130E4S**	ZS09KAE	9.0	40.3	7.2	55.4	3.4	28.0
KWO150E4S**	ZS11KAE	11.3	55.0	9.3	58.0	3.8	28.0
KWO180E4S**	ZS13KAE	10.8	56.0	8.7	58.0	4.3	29.0
KWO200E4S**	ZS15KAE	14.1	68.0	9.6	58.0	4.8	29.0
KWO250E4S**	ZS19KAE	16.2	75.0	12.3	73.0	5.8	38.0
KWO300E4S**	ZS21KAE	20.8	112.0	13.7	93.0	6.2	48.0
KWO350E4S**	ZS26KAE	21.2	104.0	13.9	93.0	6.2	48.0
KWO400E4S**	ZS29KAE	23.4	137.0	18.4	114.0	8.4	58.0
KWO450E4S**	ZS33KAE	23.0	146.0	20.0	114.0	9.0	52.0
KWO500E4S**	ZS38K4E	28.5	169.0	19.2	123.0	8.7	62.0
KWO600E4S**	ZS45K4E	–	–	21.5	156.0	10.3	75.0

LOW TEMPERATURE SCROLL

KWO100L4S**	ZF03KAE	5.4	42.3	3.7	31.7	–	–
KWO130L4S**	ZF04KAE	6.6	40.3	6	55.4	–	–
KWO160L4S**	ZF05KAE	7.8	55	6.6	58	–	–
KWO230L4S**	ZF07KAE	12.4	75	7.8	58	3.6	28.0
KWO250L4S**	ZF08K4E	14.7	73	8.7	63	4.5	31.0
KWO300L4S**	ZF09K4E	12.8	88	8.7	77	4.5	39.0
KWO350L4S**	ZF11K4E	16.3	109	10.9	88	5.8	44.0
KWO400L4S**	ZF13K4E	22.4	129	11.9	99	6.4	49.5
KWO500L4S**	ZF15K4E	24.7	169	17	123	8.0	62.0
KWO600L4S**	ZF18K4E	–	–	19.6	156	8.0	75.0

* Asterisk represents a variable character based upon voltage and vintage ordered. See nomenclature page for details.

RLA = Rated Load Amps LRA = Locked Rotor Amps MCA = Minimum Circuit Ampacity

MCA includes 1 amp allowance for control circuit requirement.

AIR DEFROST DATA // ALL MODELS

Model No.	Comp. Model	Air Defrost		Max Evap. Fan AMPS†	Max Def. AMPS†	Air Defrost		Max Evap. Fan AMPS†	Max Def. AMPS†	Air Defrost		Max Evap. Fan AMPS†	Max Def. AMPS†
		MCA	MOPD			MCA	MOPD			MCA	MOPD		

EXTENDED MEDIUM TEMPERATURE HERMETIC

KWH055E4S**	RST45C1E	15.0	15	4.0	15.0	–	–	–	–	–	–	–	–
KWH080E4S**	RST55C1E	15.0	10	4.0	15.0	–	–	–	–	–	–	–	–
KWH090E4S**	RST64C1E	15.0	15	4.0	15.0	–	–	–	–	–	–	–	–
KWH100E4S**	RST70C1E	15.0	15	4.0	15.0	15.0	15	4.0	15.0	–	–	–	–
KWH125E4S**	RST97C1E	15.0	20	6.0	15.0	15.0	15	6.0	15.0	–	–	–	–

EXTENDED MEDIUM TEMPERATURE SCROLL

KWO060M4S**	ZB06KAE	15.0	15	4.0	15.0	15.0	15	4.0	15.0	–	–	–	–
KWO080M4S**	ZB07KAE	15.0	15	4.0	15.0	15.0	15	4.0	15.0	–	–	–	–
KWO100M4S**	ZB08KAE	15.0	15	4.0	15.0	15.0	15	4.0	15.0	–	–	–	–
KWO130E4S**	ZS09KAE	15.0	20	4.0	15.0	15.0	15	4.0	15.0	15.0	15	2.0	15.0
KWO150E4S**	ZS11KAE	15.1	25	6.0	20.0	15.0	20	6.0	15.0	15.0	15	3.0	15.0
KWO180E4S**	ZS13KAE	14.5	25	6.0	20.0	15.0	20	6.0	15.0	15.0	15	3.0	15.0
KWO200E4S**	ZS15KAE	18.6	30	10.0	25.0	15.0	20	10.0	20.0	15.0	15	5.0	15.0
KWO250E4S**	ZS19KAE	21.2	35	10.0	25.0	16.3	25	10.0	25.0	15.0	15	5.0	15.0
KWO300E4S**	ZS21KAE	27.0	45	12.0	30.0	18.1	30	12.0	25.0	15.0	10	6.0	15.0
KWO350E4S**	ZS26KAE	27.5	45	12.0	30.0	18.3	30	12.0	25.0	15.0	10	6.0	15.0
KWO400E4S**	ZS29KAE	30.2	50	12.0	30.0	24.0	40	12.0	30.0	15.0	15	6.0	15.0
KWO450E4S**	ZS33KAE	29.7	50	12.0	30.0	26.0	45	12.0	30.0	15.0	20	6.0	20.0
KWO500E4S**	ZS38K4E	36.6	60	12.0	30.0	25.0	40	12.0	30.0	15.0	20	6.0	20.0
KWO600E4S**	ZS45K4E	–	–	–	–	27.8	45	12.0	30.0	13.8	20	6.0	20.0

* Each asterisk represents a variable character based upon voltage and vintage ordered. See nomenclature page for details.

MCA = Minimum Circuit Ampacity **MOPD** = Maximum Overcurrent Protection

MCA includes 1 amp allowance for control circuit requirement.

† Maximum Evap. fan amps and maximum defrost amps are shown to provide ratings when electric defrost is required and is an optional feature. Maximum Amp value used to determine MOPD. Exceeding these values invalidates the listed MOPD and requires a revised calculation. Contact Application Engineering when amp draw requirements deviate from the chart values.

ELECTRICAL DEFROST DATA // ALL MODELS

Model No.	Comp. Model	208-230V/1/60 HZ					208-230V/3/60 HZ					460V/3/60 HZ				
		MCA	MOPD	Elec. Def. Kit [†]	Max Evap. Fan Amps [†]	Max Def. Amps [†]	MCA	MOPD	Elec. Def. Kit [†]	Max Evap. Fan Amps [†]	Max Def. Amps [†]	MCA	MOPD	Elec. Def. Kit [†]	Max Evap. Fan Amps [†]	Max Def. Amps [†]

EXTENDED MEDIUM TEMPERATURE HERMETIC

KWH055E4S**	RST45C1E	19.7	20	ED-5	4.0	15.0	–	–	–	–	–	–	–	–	–	–
KWH080E4S**	RST55C1E	19.7	20	ED-5	4.0	15.0	–	–	–	–	–	–	–	–	–	–
KWH090E4S**	RST64C1E	19.7	20	ED-5	4.0	15.0	–	–	–	–	–	–	–	–	–	–
KWH100E4S**	RST70C1E	19.7	20	ED-5	4.0	15.0	19.7	20	ED-5	4.0	15.0	–	–	–	–	–
KWH125E4S**	RST97C1E	19.7	25	ED-5	6.0	15.0	19.7	20	ED-5	6.0	15.0	–	–	–	–	–

EXTENDED MEDIUM TEMPERATURE SCROLL

KWO060M4S**	ZB06KAE	19.7	20	ED-5	4.0	15.0	19.7	20	ED-5	4.0	15.0	–	–	–	–	–
KWO080M4S**	ZB07KAE	19.7	20	ED-5	4.0	15.0	19.7	20	ED-5	4.0	15.0	–	–	–	–	–
KWO100M4S**	ZB08KAE	19.7	20	ED-5	4.0	15.0	19.7	20	ED-5	4.0	15.0	–	–	–	–	–
KWO130E4S**	ZS09KAE	19.7	25	ED-5	4.0	15.0	19.7	20	ED-5	4.0	15.0	19.7	20	ED-17	2.0	15.0
KWO150E4S**	ZS11KAE	26.0	30	ED-6	6.0	20.0	19.7	25	ED-5	6.0	15.0	19.7	20	ED-17	3.0	15.0
KWO180E4S**	ZS13KAE	26.0	30	ED-6	6.0	20.0	19.7	25	ED-5	6.0	15.0	19.7	20	ED-17	3.0	15.0
KWO200E4S**	ZS15KAE	32.2	40	ED-7	10.0	25.0	26.0	30	ED-6	10.0	20.0	19.7	20	ED-17	5.0	15.0
KWO250E4S**	ZS19KAE	32.2	45	ED-7	10.0	25.0	32.2	35	ED-7	10.0	25.0	19.7	20	ED-17	5.0	15.0
KWO300E4S**	ZS21KAE	39.0	50	ED-10	12.0	30.0	32.2	40	ED-7	12.0	25.0	19.7	20	ED-17	6.0	15.0
KWO350E4S**	ZS26KAE	39.5	60	ED-10	12.0	30.0	32.2	40	ED-7	12.0	25.0	19.7	20	ED-17	6.0	15.0
KWO400E4S**	ZS29KAE	42.2	60	ED-10	12.0	30.0	38.5	50	ED-11	12.0	30.0	19.7	25	ED-17	6.0	15.0
KWO450E4S**	ZS33KAE	41.7	60	ED-10	12.0	30.0	38.5	50	ED-11	12.0	30.0	26.0	30	ED-18	6.0	20.0
KWO500E4S**	ZS38K4E	48.6	60	ED-10	12.0	30.0	38.5	50	ED-11	12.0	30.0	26.0	30	ED-18	6.0	20.0
KWO600E4S**	ZS45K4E	–	–	–	–	–	39.8	60	ED-11	12.0	30.0	26.0	30	ED-18	6.0	20.0

LOW TEMPERATURE SCROLL

KWO100L4S**	ZF03KAE	19.7	20	ED-5	6	15	19.7	20	ED-5	6	15	–	–	–	–	–
KWO130L4S**	ZF04KAE	19.7	20	ED-5	6	15	19.7	20	ED-5	6	15	–	–	–	–	–
KWO160L4S**	ZF05KAE	19.7	20	ED-5	6	15	19.7	20	ED-5	6	15	–	–	–	–	–
KWO230L4S**	ZF07KAE	19.7	30	ED-5	6	15	19.7	20	ED-5	6	15	19.7	20	ED-17	5	15
KWO250L4S**	ZF08K4E	29.4	40	ED-6	10	20	26	30	ED-6	10	20	19.7	20	ED-17	5	15
KWO300L4S**	ZF09K4E	27	35	ED-6	10	20	26	30	ED-6	10	20	19.7	20	ED-17	5	15
KWO350L4S**	ZF11K4E	32.2	45	ED-7	10	25	32.2	35	ED-7	10	25	19.7	20	ED-17	5	15
KWO400L4S**	ZF13K4E	41	60	ED-7	12	25	32.2	35	ED-7	12	25	19.7	20	ED-17	6	15
KWO500L4S**	ZF15K4E	43.9	60	ED-11	12	30	38.5	50	ED-11	12	30	19.7	25	ED-17	6	15
KWO600L4S**	ZF18K4E	–	–	–	–	–	38.5	50	ED-11	12	30	19.7	25	ED-17	6	15

* Each asterisk represents a variable character based upon voltage and vintage ordered. See nomenclature page for details.

MCA = Minimum Circuit Ampacity **MOPD** = Maximum Overcurrent Protection

MCA includes 1 amp allowance for control circuit requirement.

[†] Maximum Evap. fan amps and maximum defrost amps are shown to provide ratings when electric defrost is required and is an optional feature. Maximum Amp value used to determine MOPD. Exceeding these values invalidates the listed MOPD and requires a revised calculation. Contact Application Engineering when amp draw requirements deviate from the chart values.

SPECIFICATIONS // ALL MODELS

Model No.	Comp. Model No.	HP	Connections (ODS)			Pump Down Capacity			
			Liquid	Suction^^	Water (OD)	Standard Receiver			
						90% R404A (lbs.)	90% R407A (lbs.)	90% R407C (lbs.)	90% R448A, R449A (lbs.)

EXTENDED MEDIUM TEMPERATURE HERMETIC

KWH055E4S**	RST45C1E	1/2	3/8	5/8	1/2	5.9	6.4	6.7	6.1
KWH080E4S**	RST55C1E	1/2	3/8	5/8	1/2	5.9	6.4	6.7	6.1
KWH090E4S**	RST64C1E	3/4	3/8	5/8	3/4	5.9	6.4	6.7	6.1
KWH100E4S**	RST70C1E	3/4	3/8	5/8	3/4	5.9	6.4	6.7	6.1
KWH125E4S**	RST97C1E	1	1/2	7/8	3/4	11.0	12.1	12.7	11.6

EXTENDED MEDIUM TEMPERATURE SCROLL

KWO060M4S**	ZB06KAE	1/2	3/8	5/8	3/4	5.9	6.4	6.7	6.1
KWO080M4S**	ZB07KAE	1/2	3/8	5/8	3/4	5.9	6.4	6.7	6.1
KWO100M4S**	ZB08KAE	1	3/8	5/8	3/4	5.9	6.4	6.7	6.1
KWO130E4S**	ZS09KAE	1-1/3	3/8	5/8	3/4	5.9	6.4	6.7	6.1
KWO150E4S**	ZS11KAE	1-1/2	1/2	7/8	3/4	11.0	12.1	12.7	11.6
KWO180E4S**	ZS13KAE	1-3/4	1/2	7/8	7/8	11.0	12.1	12.7	11.6
KWO200E4S**	ZS15KAE	2	1/2	7/8	7/8	13.6	15.0	15.7	14.3
KWO250E4S**	ZS19KAE	2-1/2	1/2	7/8	7/8	13.6	15.0	15.7	14.3
KWO300E4S**	ZS21KAE	3	5/8	1-1/8	1-1/8	13.6	15.0	15.7	14.3
KWO350E4S**	ZS26KAE	3-1/2	5/8	1-1/8	1-1/8	13.6	15.0	15.7	14.3
KWO400E4S**	ZS29KAE	4	5/8	1-1/8	2-1/8	13.6	15.0	15.7	14.3
KWO450E4S**	ZS33KAE	4-1/2	5/8	1-1/8	2-1/8	13.6	15.0	15.7	14.3
KWO500E4S**	ZS38K4E	5	5/8	1-1/8	2-1/8	13.6	15.0	15.7	14.3
KWO600E4S**	ZS45K4E	6	5/8	1-1/8	2-1/8	13.6	15.0	15.7	14.3

LOW TEMPERATURE SCROLL

KWO100L4S**	ZF03KAE	1	3/8	7/8	3/4	11.0	12.1	12.7	11.6
KWO130L4S**	ZF04KAE	1-1/3	3/8	7/8	3/4	11.0	12.1	12.7	11.6
KWO160L4S**	ZF05KAE	1-1/2	3/8	7/8	3/4	11.0	12.1	12.7	11.6
KWO230L4S**	ZF07KAE	2	3/8	7/8	3/4	11.0	12.1	12.7	11.6
KWO250L4S**	ZF08K4E	2-1/2	3/8	7/8	3/4	13.6	15.0	15.7	14.3
KWO300L4S**	ZF09K4E	3	3/8	7/8	3/4	13.6	15.0	15.7	14.3
KWO350L4S**	ZF11K4E	3-1/2	3/8	7/8	3/4	13.6	15.0	15.7	14.3
KWO400L4S**	ZF13K4E	4	1/2	1-1/8	7/8	13.6	15.0	15.7	14.3
KWO500L4S**	ZF15K4E	5	1/2	1-1/8	7/8	13.6	15.0	15.7	14.3
KWO600L4S**	ZF18K4E	6	1/2	1-1/8	7/8	13.6	15.0	15.7	14.3

* Each asterisk represents a variable character based upon voltage and vintage ordered. See nomenclature page for details.

^^ Connection size with or without factory installed liquid and/or suction line assembly.

SPECIFICATIONS // ALL MODELS

Model No.	Comp. Model No.	Cabinet Size ^{††}	Dimensions (in.)			Approx. Ship WT. (lbs.)	Sound Data dBA [†]
			D	W	H		

EXTENDED MEDIUM TEMPERATURE HERMETIC[^]

KWH055E4S**	RST45C1E	FW1	28-1/16	27-1/8	18-5/8	152	65
KWH080E4S**	RST55C1E	FW1	28-1/16	27-1/8	18-5/8	156	65
KWH090E4S**	RST64C1E	FW1	28-1/16	27-1/8	18-5/8	160	65
KWH100E4S**	RST70C1E	FW1	28-1/16	27-1/8	18-5/8	167	65
KWH125E4S**	RST97C1E	FW2	28-1/16	39-1/8	19-7/8	195	69

EXTENDED MEDIUM TEMPERATURE SCROLL^{^^}

KWO060M4S**	ZB06KAE	FW1	28-1/16	27-1/8	18-5/8	195	67
KWO080M4S**	ZB07KAE	FW1	28-1/16	27-1/8	18-5/8	195	67
KWO100M4S**	ZB08KAE	FW1	28-1/16	27-1/8	18-5/8	195	67
KWO130E4S**	ZS09KAE	FW1	28-1/16	27-1/8	18-5/8	195	67
KWO150E4S**	ZS11KAE	FW2	28-1/16	39-1/8	19-7/8	205	68
KWO180E4S**	ZS13KAE	FW2	28-1/16	39-1/8	19-7/8	210	68
KWO200E4S**	ZS15KAE	FW3	28-1/16	39-1/8	21-1/8	215	68
KWO250E4S**	ZS19KAE	FW3	28-1/16	39-1/8	21-1/8	230	69
KWO300E4S**	ZS21KAE	FW4	32-13/16	43-1/8	21-1/8 [^]	305	69
KWO350E4S**	ZS26KAE	FW4	32-13/16	43-1/8	21-1/8 [^]	325	69
KWO400E4S**	ZS29KAE	FW4	32-13/16	43-1/8	21-1/8 [^]	352	71
KWO450E4S**	ZS33KAE	FW4	32-13/16	43-1/8	21-1/8 [^]	375	71
KWO500E4S**	ZS38K4E	FW4	32-13/16	43-1/8	21-1/8 [^]	383	71
KWO600E4S**	ZS45K4E	FW4	32-13/16	43-1/8	21-1/8 [^]	405	73

LOW TEMPERATURE SCROLL

KWO100L4S**	ZF03KAE	FW2	28-1/16	39-1/8	19-7/8	230	68
KWO130L4S**	ZF04KAE	FW2	28-1/16	39-1/8	19-7/8	230	68
KWO160L4S**	ZF05KAE	FW2	28-1/16	39-1/8	19-7/8	230	68
KWO230L4S**	ZF07KAE	FW2	28-1/16	39-1/8	19-7/8	230	68
KWO250L4S**	ZF08K4E	FW3	28-1/16	39-1/8	21-1/8	240	70
KWO300L4S**	ZF09K4E	FW3	28-1/16	39-1/8	21-1/8	245	70
KWO350L4S**	ZF11K4E	FW3	28-1/16	39-1/8	21-1/8	255	70
KWO400L4S**	ZF13K4E	FW4	32-13/16	43-1/8	21-1/8 [^]	352	70
KWO500L4S**	ZF15K4E	FW4	32-13/16	43-1/8	21-1/8 [^]	367	71
KWO600L4S**	ZF18K4E	FW4	32-13/16	43-1/8	21-1/8 [^]	383	73

* Each asterisk represents a variable character based upon voltage and vintage ordered. See nomenclature page for details.

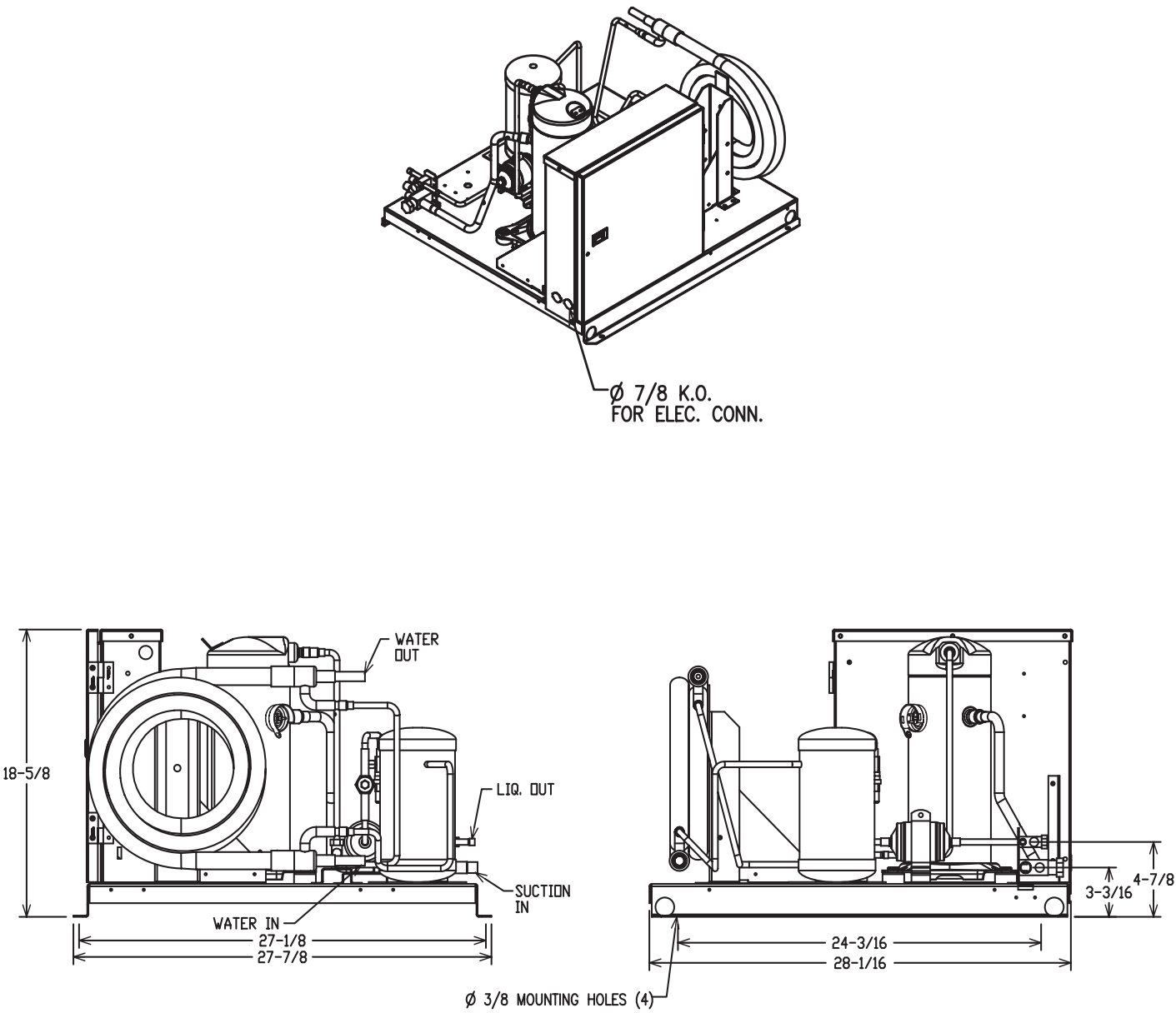
[†]Estimated dBA values at 10 feet from the unit. Correction factors: Deduct 6 dBA for 20 to 40 feet, 12 dBA @ 40 to 60 feet. Ratings at the outlet of the discharge air. The actual measurements may vary depending upon installation variables. Environmental factors may have a significant influence on this data.

^{††} See pages 14-17 for associated drawings.

[^] Maximum height is 35" when using a two defrost contactor kit or replaceable core liquid and suction filters.

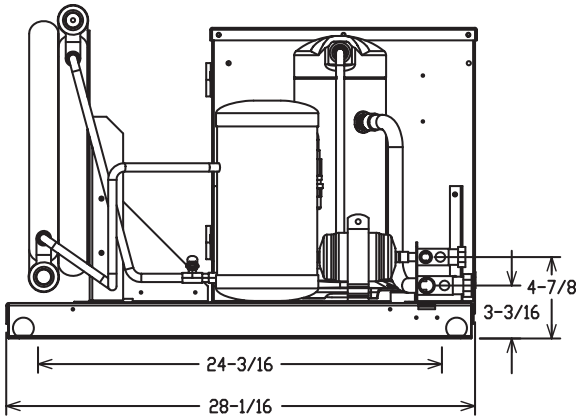
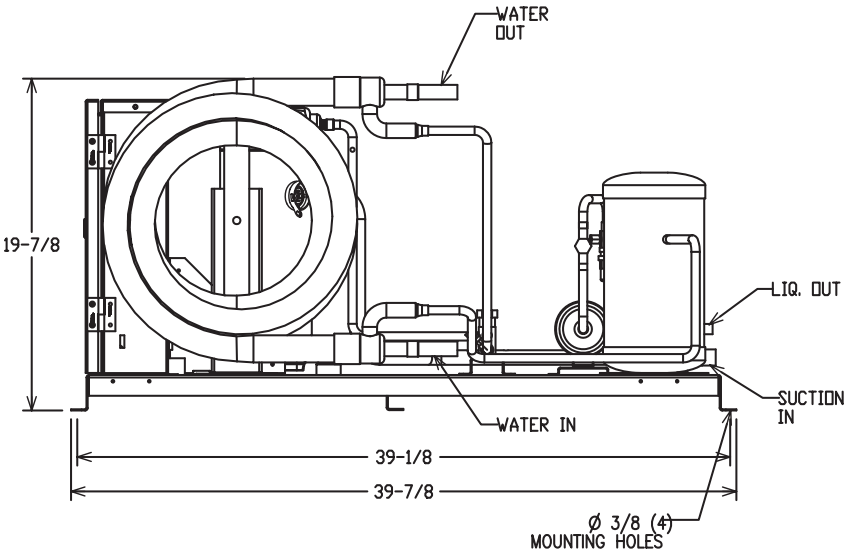
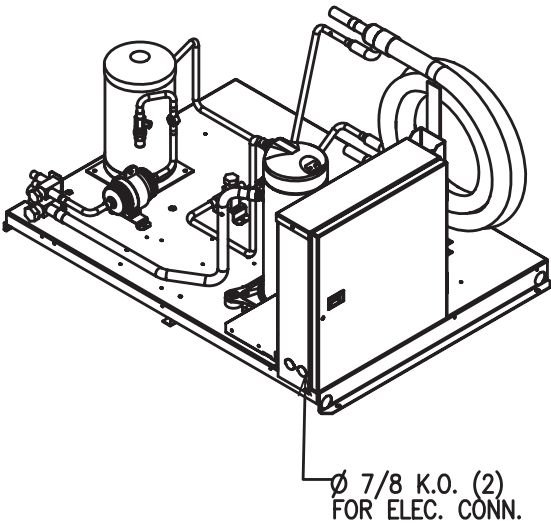
DIMENSIONAL DRAWINGS

Figure 1: FW1



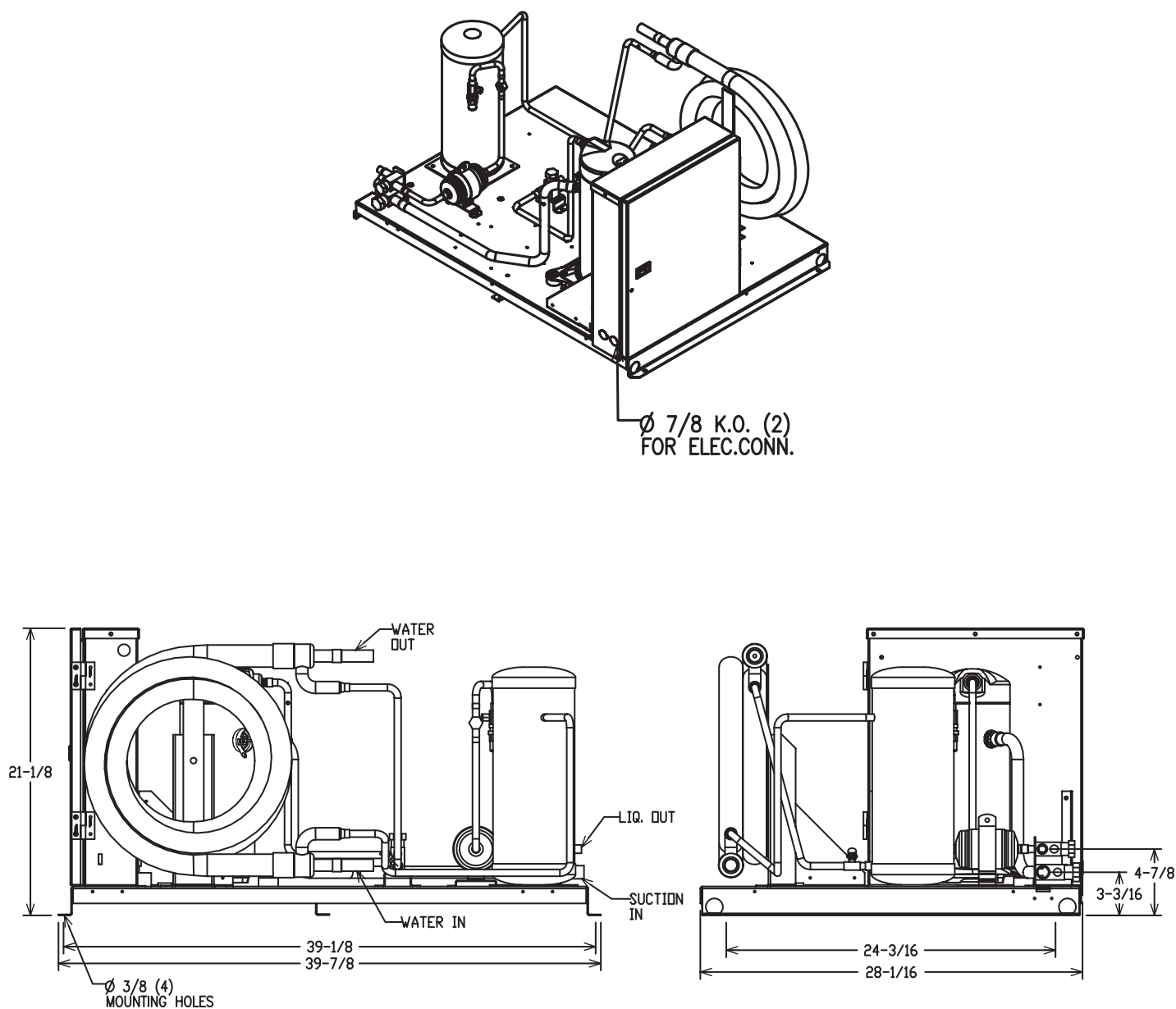
DIMENSIONAL DRAWINGS

Figure 2: FW2



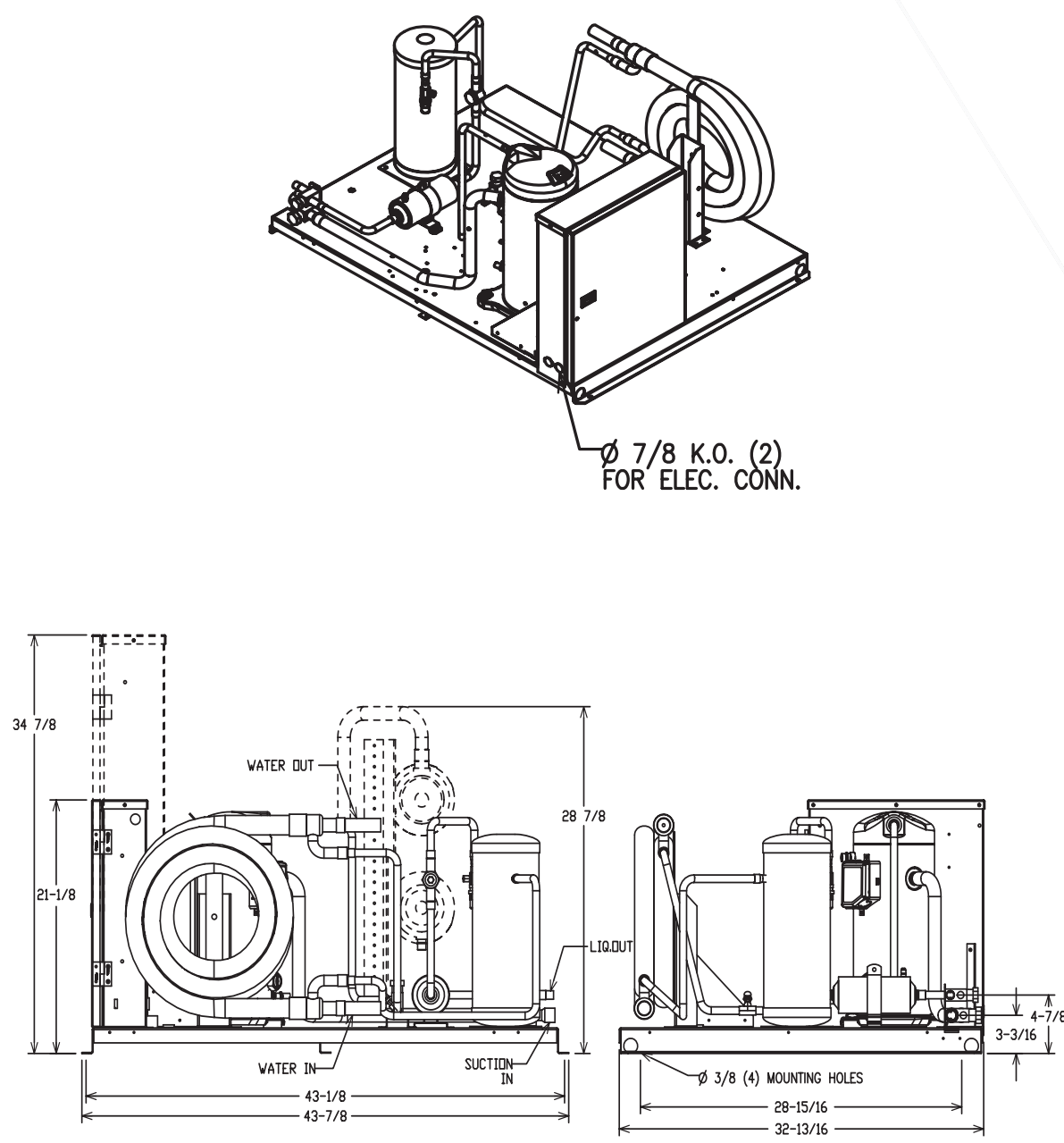
DIMENSIONAL DRAWINGS

Figure 3: FW3



DIMENSIONAL DRAWINGS

Figure 4: FW4







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