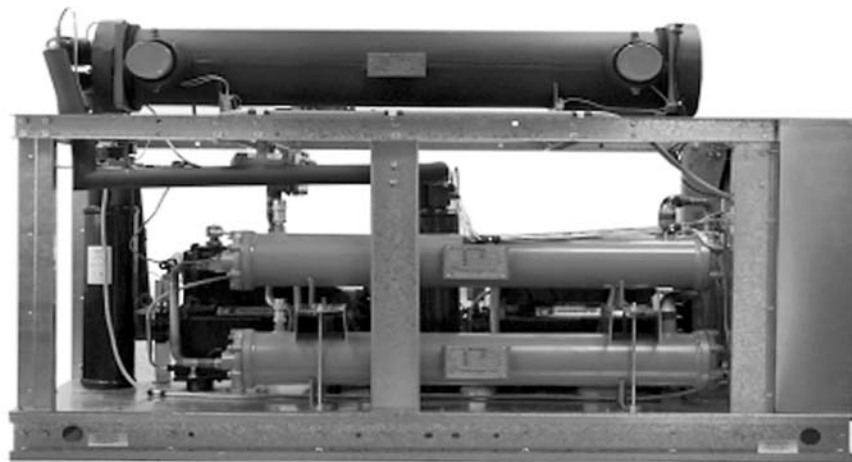
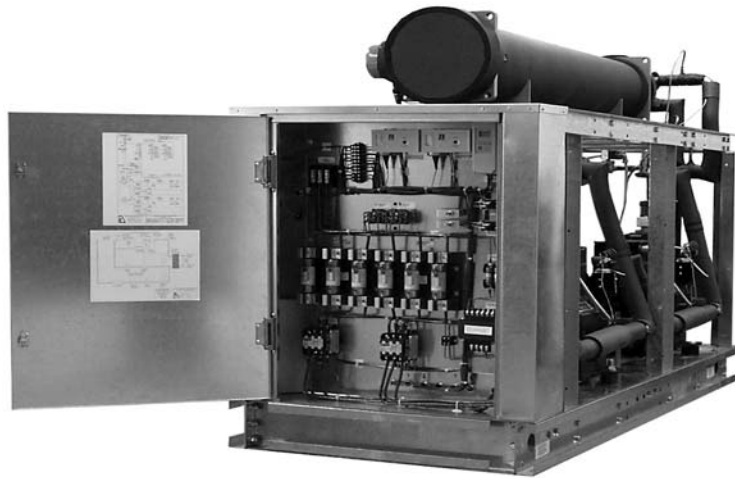


# **MUELLER®**

## **WATER-COOLED**

### **SEMI-HERMETIC CHILLERS**

#### **1 TO 106 NOMINAL TONS**



**MUELLER®**

REFRIGERATION PRODUCTS

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# Semi-Hermetic Packaged Water Chiller Capacities

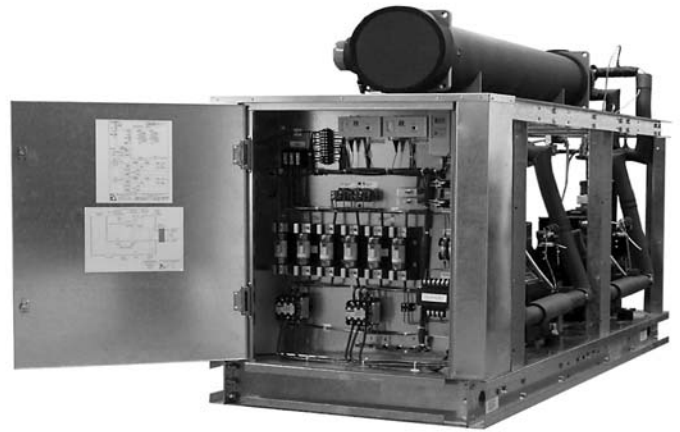
Mueller Model	LWT °F	105°F Condensing			Mueller Model	LWT °F	105°F Condensing			Mueller Model	LWT °F	105°F Condensing		
		Tons	KW	EER			Tons	KW	EER			Tons	KW	EER
010S	42	1.1	1.2	11.3	020S	42	1.6	1.7	11.4	030S	42	2.4	2.6	11.2
	44	1.1	1.2	11.8		44	1.7	1.7	11.8		44	2.5	2.6	11.7
	45	1.2	1.2	12.0		45	1.7	1.7	12.0		45	2.6	2.6	11.9
	50	1.3	1.2	13.2		50	1.9	1.8	13.1		50	2.8	2.6	12.9
031S	42	2.8	3.4	9.9	040S	42	3.9	4.3	11.0	050S	42	4.8	4.0	14.3
	44	2.9	3.4	10.3		44	4.2	4.4	11.4		44	5.0	4.0	14.8
	45	3.0	3.5	10.4		45	4.3	4.4	11.6		45	5.1	4.0	15.1
	50	3.3	3.6	11.2		50	4.8	4.5	12.7		50	5.7	4.2	16.7
051S	42	5.5	4.7	14.2	075S	42	9.4	8.1	14.0	100S	42	11.0	9.5	14.0
	44	5.8	4.7	14.8		44	9.8	8.1	14.5		44	11.5	9.5	14.5
	45	6.0	4.7	15.2		45	10.0	8.1	14.8		45	11.8	9.5	14.8
	50	6.6	4.8	16.6		50	11.1	8.2	16.2		50	12.9	9.6	16.2
120S	42	12.3	11.7	12.7	150S	42	15.2	13.1	13.9	200S	42	17.1	14.0	14.6
	44	12.9	11.8	13.0		44	15.8	13.2	14.4		44	17.9	14.2	15.1
	45	13.2	11.9	13.3		45	16.0	13.2	14.6		45	18.3	14.2	15.4
	50	14.4	12.1	14.3		50	17.5	13.4	15.7		50	20.0	14.5	16.7
220S	42	19.2	16.5	13.9	250S	42	21.3	18.2	13.9	301S	42	28.6	24.4	14.0
	44	20.0	16.6	14.4		44	22.1	18.4	14.4		44	29.6	24.5	14.5
	45	20.4	16.7	14.7		45	22.5	18.4	14.6		45	30.3	24.6	14.7
	50	22.2	16.9	15.8		50	24.5	18.7	15.8		50	33.0	25.0	15.8
351S	42	33.7	29.4	13.7	400S	42	37.1	32.7	13.6	500S	42	44.2	40.4	13.1
	44	34.9	29.6	14.1		44	38.3	32.8	14.0		44	45.6	40.7	13.4
	45	35.7	29.8	14.3		45	39.2	33.1	14.3		45	46.7	40.9	13.7
	50	38.6	30.3	15.2		50	42.5	33.6	15.2		50	50.0	41.5	14.4
600S	42	52.5	50.8	12.3	150D	42	19.0	16.2	14.1	200D	42	22.2	18.9	14.1
	44	54.2	51.2	12.7		44	19.7	16.3	14.6		44	23.1	19.0	14.6
	45	55.4	51.5	12.9		45	20.1	16.3	14.8		45	23.6	19.1	14.8
	50	59.6	52.4	13.7		50	21.9	16.5	16.0		50	25.7	19.3	16.0
240D	42	25.4	23.6	12.8	300D	42	30.0	26.1	13.8	400D	42	34.5	28.2	14.7
	44	26.3	23.8	13.3		44	31.3	26.3	14.2		44	35.7	28.3	15.1
	45	26.9	23.9	13.5		45	31.9	26.4	14.5		45	36.7	28.5	15.5
	50	29.6	24.4	14.5		50	34.8	26.7	15.7		50	39.7	28.9	16.5
440D	42	39.8	33.2	14.3	500D	42	43.1	36.5	14.2	601D	42	57.3	48.7	14.1
	44	41.0	33.4	14.7		44	44.5	36.8	14.5		44	59.0	49.0	14.4
	45	42.1	33.5	15.1		45	45.5	36.9	14.8		45	60.2	49.2	14.7
	50	45.4	33.9	16.2		50	49.0	37.4	15.7		50	64.8	49.9	15.6
701D	42	65.9	58.6	13.4	800D	42	73.6	65.2	13.5	1000D	42	88.8	80.8	13.2
	44	68.4	59.1	13.8		44	76.6	65.7	13.9		44	92.3	81.5	13.5
	45	69.8	59.4	14.1		45	77.8	66.0	14.2		45	94.2	81.9	13.8
	50	75.8	60.6	15.0		50	84.8	67.3	15.2		50	102.9	83.6	14.8
1200D	42	97.5	100.9	12.2	<b>Note:</b> Capacities on this chart are based on refrigerant 22. Lower leaving water temperatures can require the use of glycol solution or other fluid blends. These solutions affect unit capacities. Please consult the factory on these or other special fluids for proper unit selections.									
	44	106.3	102.0	12.5										
	45	108.3	102.5	12.7										
	50	117.5	104.4	13.5										

# PWC Semi-Hermetic Standard Features and Options

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## STANDARD FEATURES - ALL MODELS

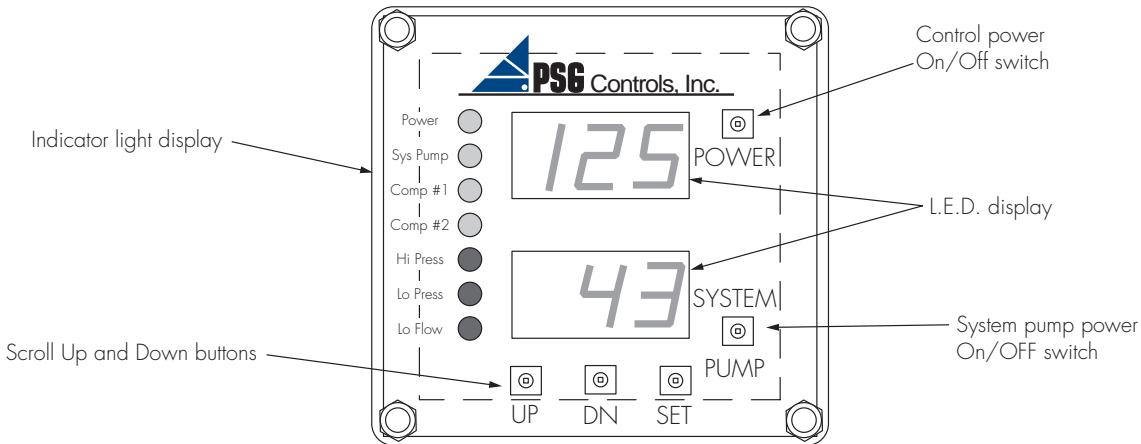
- ETL listed. 
- Microprocessor controller.
- 316 stainless steel, copper-brazed plate evaporator with 1/2" insulation, secured in a steel bracket (1-12 hp) .
- Shell-and-tube chiller barrel (15-120 hp).
- Water flow switch.
- Control circuit fusing.
- 24V control transformer.
- Removable/hinged control access panel.
- Semi-hermetic compressor with crankcase heater.
- Compressor contactors.
- Compressor vibration eliminators and spring isolator kit.
- Compressor oil safety control.
- Condenser(s): shell-and-tube.
- Liquid line drier, sightglass, solenoid, TEV.
- Replaceable core liquid line drier (15 to 120 hp)
- Galvanized steel sheet metal base frame.
- 1/2" insulation on all water and refrigerant suction lines.
- Complete refrigerant charge from factory.
- Computerized factory run test under load conditions.



## AVAILABLE OPTIONS

- Compressor cylinder unloading (7.5 hp and up).
- Compressor fusing.
- Fused disconnect.
- Factory installed heat tape freeze protection, thermostatically controlled.
- Special piping for de-ionized and reverse osmosis water systems.
- Fused stainless steel system process pump.
- Dual system process pump with manual or auto changeover.
- Water flow meter.
- Phase monitor.
- CUNI (marine) condenser.
- 4-year extended compressor warranty.
- Hot gas bypass capacity control with solenoid valve and time delay relay.
- Factory-assisted start-up.

# Microprocessor Standard Features

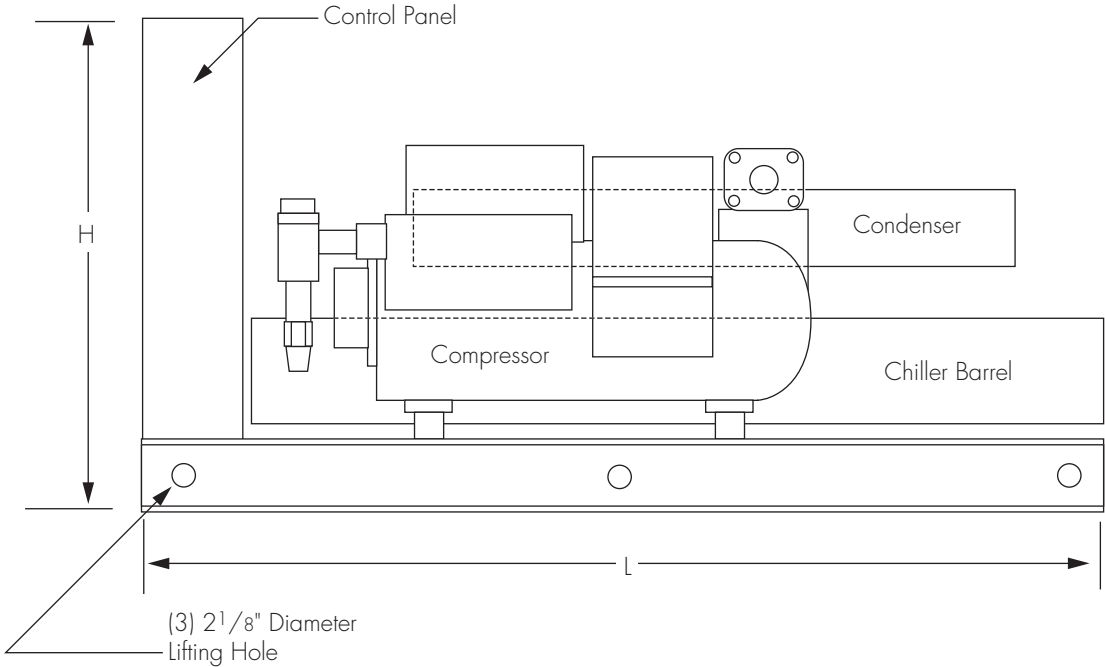


- Control operates to a +/- 1°F accuracy.
- Powered from the chiller 24-volt control circuit. No high voltage interference.
- 1 or 2 compressor control capability.
- Operates and displays in °F or °C.
- Controls chiller on inlet or outlet temperature.
- Scroll through set-up and review mode.
- 30-second compressor time delay to prevent short cycling and nuisance faults.
- 60-second hot gas solenoid delay to prevent false hot gas feeding during compressor start up.
- Lock out relay shuts down the chiller when control fault settings activate.
- Automatic compressor lead lag on dual circuit chillers.
- Weather resistant for outdoor use.
- Basic chiller functionality for ease of set up and operation.
- Factory configured for job site operation.
- Factory default function code to reset the controller to the initial factory settings.
- Monitors and logs compressor run hours.
- Two L.E.D. display windows:
  - ▲ Displays inlet and outlet temperature during chiller operation.
  - ▲ Displays refrigerant high- and low-pressure in review mode:
    - *No cap tubes to break causing a loss of refrigerant and down time.*
    - *No refrigerant recovery to change out the pressure transducer.*
- Indicator lights:
  - ▲ Chiller control power on/off switch with green indicator.
  - ▲ System pump on/off switch with green indicator.
  - ▲ Compressor run indicator lights.
  - ▲ High and low refrigerant pressure red fault indicator.
  - ▲ Low fluid flow red indicator.
- Display flashes all chiller safety faults:
  - ▲ High fluid temperature outlet alarm (display only — does not shut down the chiller).
  - ▲ Low fluid temperature outlet alarm (shuts down the chiller and requires manual reset).
  - ▲ High refrigerant pressure (shuts down the chiller and requires manual reset).
  - ▲ Low refrigerant pressure (shuts down the chiller and requires manual reset).
  - ▲ Low water flow through evaporator (shuts down the chiller and automatically resets when flow is restored).

# Single-Circuit Semi-Hermetic Water-Cooled Chiller

SINGLE-CIRCUIT SEMI-HERMETIC WATER-COOLED CHILLER SPECIFICATIONS																
Mueller Model	Nominal Btuh	Evaporator		Condenser		Length (in)	Width (in)	Height (in)	Qty	Compressor HP	Compressor Model	RLA (ea)	LRA (ea)	MCA	MOP	Weight (lbs)
		PSI Drop	Conn	PSI Drop	Conn											
PWC010S2-S2-S	13,200	3.1	3/4" FPT	1.0	3/4" FPT	40	34	42	1	1	KAMA-0100	7.5	40	9.4	15	270
PWC010S2-T3-S	13,200	3.1	3/4" FPT	1.0	3/4" FPT	40	34	42	1	1	KAMA-0100	4.5	27	5.6	15	270
PWC010S2-T4-S	13,200	3.1	3/4" FPT	1.0	3/4" FPT	40	34	42	1	1	KAMA-0100	2.2	13.5	2.8	15	270
PWC020S2-S2-S	20,400	4.5	1" FPT	1.1	1" FPT	40	34	42	1	2	KAK-0200	7.3	40	9.1	15	310
PWC020S2-T3-S	20,400	4.5	1" FPT	1.1	1" FPT	40	34	42	1	2	KAK-0200	3.3	25	4.1	15	310
PWC020S2-T4-S	20,400	4.5	1" FPT	1.1	1" FPT	40	34	42	1	2	KAK-0200	1.9	15	2.4	15	310
PWC030S2-S2-S	30,000	5.0	1" FPT	3.5	1" FPT	40	34	42	1	3	EAD-0320	16.0	102	20.0	30	325
PWC030S2-T3-S	30,000	5.0	1" FPT	3.5	1" FPT	40	34	42	1	3	EAD-0320	12.4	85	15.5	25	325
PWC030S2-T4-S	30,000	5.0	1" FPT	3.5	1" FPT	40	34	42	1	3	EAD-0320	5.2	42	6.5	15	325
PWC031S2-S2-S	34,800	4.0	1" FPT	1.0	1" FPT	40	34	42	1	4	ERF-0310	17.0	86	21.3	35	385
PWC031S2-T3-S	34,800	4.0	1" FPT	1.0	1" FPT	40	34	42	1	4	ERF-0310	11.7	82	14.6	25	385
PWC031S2-T4-S	34,800	4.0	1" FPT	1.0	1" FPT	40	34	42	1	4	ERF-0310	6.4	41	8.0	15	385
PWC040S2-S2-S	50,400	4.7	1" FPT	1.7	1" FPT	40	34	42	1	5	NRB-0400	32.9	131	41.1	70	440
PWC040S2-T3-S	50,400	4.7	1" FPT	1.7	1" FPT	40	34	42	1	5	NRB-0400	21.8	141	27.3	45	440
PWC040S2-T4-S	50,400	4.7	1" FPT	1.7	1" FPT	40	34	42	1	5	NRB-0400	11.3	62.5	14.1	25	440
PWC050S2-S2-S	60,000	5.0	1" FPT	1.8	1 1/4" FPT	40	34	42	1	5	2DC-0500	29.9	125	37.4	60	600
PWC050S2-T3-S	60,000	5.0	1" FPT	1.8	1 1/4" FPT	40	34	42	1	5	2DC-0500	22.3	120	27.9	50	600
PWC050S2-T4-S	60,000	5.0	1" FPT	1.8	1 1/4" FPT	40	34	42	1	5	2DC-0500	10.4	60	13.0	20	600
PWC051S2-T3-S	69,600	5.3	1" FPT	4.8	1 1/4" FPT	40	34	42	1	5	2DD-0500	22.3	120	27.9	50	600
PWC051S2-T4-S	69,600	5.3	1" FPT	4.8	1 1/4" FPT	40	34	42	1	5	2DD-0500	10.5	60	13.1	20	600
PWC075S2-T3-S	117,600	5.3	1 1/4" FPT	3.2	1 1/4" FPT	65	34	42	1	7.5	3DA-0750	41.0	215	51.3	90	680
PWC075S2-T4-S	117,600	5.3	1 1/4" FPT	3.2	1 1/4" FPT	65	34	42	1	7.5	3DA-0750	20.0	106	25.0	45	680
PWC100S2-T3-S	138,000	4.5	1 1/2" FPT	4.8	1 1/4" FPT	65	34	42	1	10	3DB-1000	43.6	215	54.5	90	890
PWC100S2-T4-S	138,000	4.5	1 1/2" FPT	4.8	1 1/4" FPT	65	34	42	1	10	3DB-1000	20.0	106	25.0	45	890
PWC120S2-T3-S	154,800	4.4	1 1/2" FPT	1.7	1 1/4" FPT	65	34	42	1	12	3DF-1200	48.2	275	60.3	100	890
PWC120S2-T4-S	154,800	4.4	1 1/2" FPT	1.7	1 1/4" FPT	65	34	42	1	12	3DF-1200	23.6	138	29.5	50	890
PWC150S2-T3-S	189,600	5.5	2" MPT	6.4	1 1/4" FPT	65	34	42	1	15	3DS-1500	59.6	275	74.5	125	1,010
PWC150S2-T4-S	189,600	5.5	2" MPT	6.4	1 1/4" FPT	65	34	42	1	15	3DS-1500	29.0	138	36.3	60	1,010
PWC200S2-T3-S	214,800	5.4	2 1/2" MPT	4.9	1 1/4" FPT	65	34	60	1	20	4DA-2000	66.0	308	82.5	125	1,120
PWC200S2-T4-S	214,800	5.4	2 1/2" MPT	4.9	1 1/4" FPT	65	34	60	1	20	4DA-2000	33.0	154	41.3	70	1,120
PWC220S2-T3-S	240,000	6.8	2 1/2" MPT	2.1	2" FPT	65	34	60	1	22	4DB-2200	65.6	374	82.0	125	1,170
PWC220S2-T4-S	240,000	6.8	2 1/2" MPT	2.1	2" FPT	65	34	60	1	22	4DB-2200	32.8	187	41.0	70	1,170
PWC250S2-T3-S	265,200	6.1	2 1/2" MPT	2.8	2" FPT	85	34	60	1	25	4DH-2500	82.2	428	102.8	175	1,170
PWC250S2-T4-S	265,200	6.1	2 1/2" MPT	2.8	2" FPT	85	34	60	1	25	4DH-2500	41.1	214	51.4	90	1,170
PWC301S2-T3-S	355,200	6.6	2 1/2" MPT	4.9	2" FPT	85	34	60	1	30	6DB-3000	105.0	565	131.3	225	1,300
PWC301S2-T4-S	355,200	6.6	2 1/2" MPT	4.9	2" FPT	85	34	60	1	30	6DB-3000	52.5	283	65.6	110	1,300
PWC351S2-T3-S	418,800	2.5	3" MPT	2.4	2 1/2" FPT	95	34	60	1	35	6DG-3500	125.0	594	156.3	250	1,600
PWC351S2-T4-S	418,800	2.5	3" MPT	2.4	2 1/2" FPT	95	34	60	1	35	6DG-3500	62.5	297	78.1	125	1,600
PWC400S2-T3-S	459,600	5.2	3" MPT	3.4	2 1/2" FPT	95	34	60	1	40	6DJ-4000	142.0	594	177.5	300	1,700
PWC400S2-T4-S	459,600	5.2	3" MPT	3.4	2 1/2" FPT	95	34	60	1	40	6DJ-4000	71.0	297	88.8	150	1,700
PWC500S2-T3-S	547,200	10.4	3" MPT	4.7	2 1/2" FPT	120	34	60	1	50	8DP-5000	180.0	1070	225.0	400	1,950
PWC500S2-T4-S	547,200	10.4	3" MPT	4.7	2 1/2" FPT	120	34	60	1	50	8DP-5000	90.0	535	112.5	200	1,950
PWC600S2-T3-S	650,400	8.3	4" V	2.9	3" FPT	120	34	60	1	60	8DS-6000	224.0	1070	280.0	500	2,160
PWC600S2-T4-S	650,400	8.3	4" V	2.9	3" FPT	120	34	60	1	60	8DS-6000	112.0	535	140.0	250	2,160

# Single-Circuit Semi-Hermetic Water-Cooled Chiller

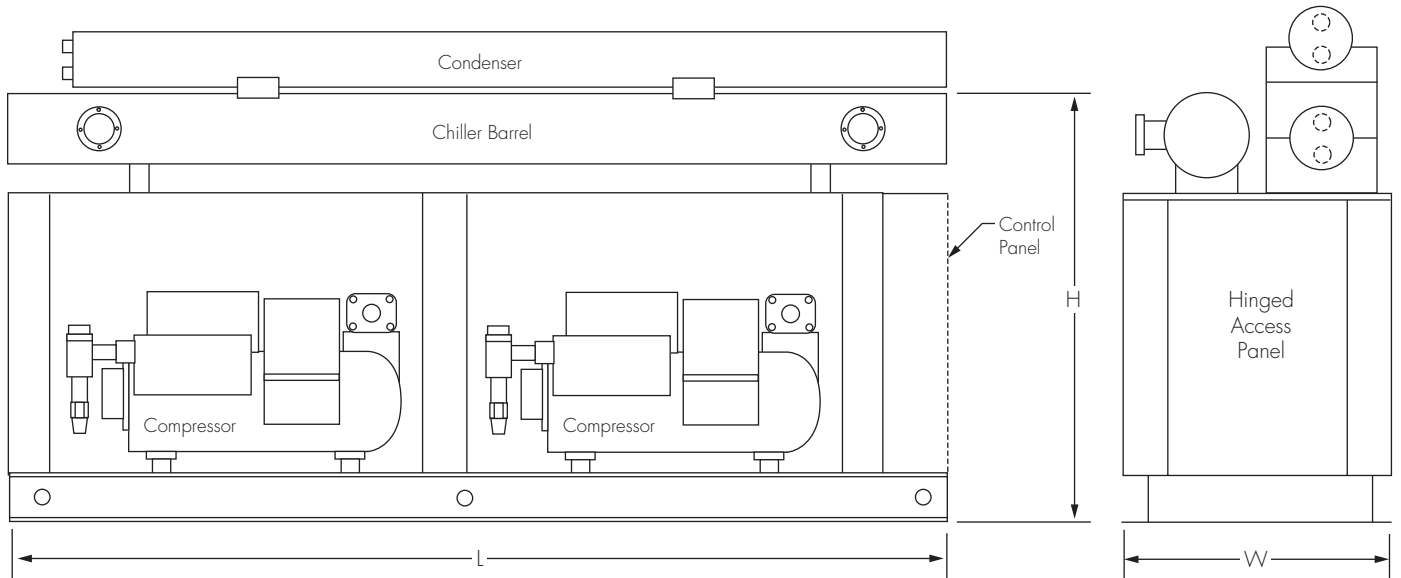


*Published nominal capacities based on ARI-590 standard, 54°F entering water, 44°F leaving water, 105°F condensing temperature.  
Published evaporator and condenser psi drop is based on a 10°F rT of water at nominal conditions.*

# Dual-Circuit Semi-Hermetic Water-Cooled Chiller

DUAL-CIRCUIT SEMI-HERMETIC WATER-COOLED CHILLER SPECIFICATIONS																
Mueller Model	Nominal		Evaporator		Condenser		Length (in)	Width (in)	Height (in)	Qty	Compressor		RLA (ea)	LRA (ea)	Weight	
	Btuh	PSI Drop	Conn	PSI Drop	Conn	HP					Model	MCA			MOP	(lbs)
PWC150D2-T3-S	236,400	6.6	2 1/2" FPT	3.2	1 1/4" FPT	85	34	60	2	7.5	3DA-0750	41.0	215	92.25	125	1,260
PWC150D2-T4-S	236,400	6.6	2 1/2" FPT	3.2	1 1/4" FPT	85	34	60	2	7.5	3DA-0750	20.0	106	45	60	1,260
PWC200D2-T3-S	277,200	6.6	2 1/2" FPT	4.8	1 1/4" FPT	85	34	60	2	10	3DB-1000	43.6	215	98.1	125	1,380
PWC200D2-T4-S	277,200	6.6	2 1/2" FPT	4.8	1 1/4" FPT	85	34	60	2	10	3DB-1000	20.0	106	45	60	1,380
PWC240D2-T3-S	315,600	5.3	2 1/2" FPT	1.7	1 1/4" FPT	85	34	60	2	12	3DF-1200	48.2	275	108.45	150	1,480
PWC240D2-T4-S	315,600	5.3	2 1/2" FPT	1.7	1 1/4" FPT	85	34	60	2	12	3DF-1200	23.6	138	53.1	70	1,480
PWC300D2-T3-S	375,600	7.3	2 1/2" FPT	6.4	1 1/4" FPT	85	34	60	2	15	3DS-1500	59.6	275	134.1	175	1,820
PWC300D2-T4-S	375,600	7.3	2 1/2" FPT	6.4	1 1/4" FPT	85	34	60	2	15	3DS-1500	29.0	138	65.25	90	1,820
PWC400D2-T3-S	428,400	3.2	3" MPT	4.9	1 1/4" FPT	85	34	60	2	20	4DA-2000	66.0	308	148.5	200	1,990
PWC400D2-T4-S	428,400	3.2	3" MPT	4.9	1 1/4" FPT	85	34	60	2	20	4DA-2000	33.0	154	74.25	100	1,990
PWC440D2-T3-S	492,000	8.4	3" MPT	2.1	2" FPT	85	34	60	2	22	4DB-2200	65.6	374	147.6	200	2,040
PWC440D2-T4-S	492,000	8.4	3" MPT	2.1	2" FPT	85	34	60	2	22	4DB-2200	32.8	187	73.8	100	2,040
PWC500D2-T3-S	534,000	9.9	3" MPT	2.8	2" FPT	85	34	60	2	25	4DH-2500	82.2	428	184.95	250	2,190
PWC500D2-T4-S	534,000	9.9	3" MPT	2.8	2" FPT	85	34	60	2	25	4DH-2500	41.1	214	92.475	125	2,190
PWC601D2-T3-S	708,000	9.8	4" V	4.9	2" FPT	110	34	60	2	30	6DB-3000	105.0	565	236.25	300	2,290
PWC601D2-T4-S	708,000	9.8	4" V	4.9	2" FPT	110	34	60	2	30	6DB-3000	52.5	283	118.125	150	2,290
PWC701D2-T3-S	820,800	6	4" V	2.4	2 1/2" FPT	110	34	60	2	35	6DG-3500	125.0	594	281.25	400	2,600
PWC701D2-T4-S	820,800	6	4" V	2.4	2 1/2" FPT	110	34	60	2	35	6DG-3500	62.5	297	140.625	200	2,600
PWC800D2-T3-S	919,200	8.9	5" V	3.4	2 1/2" FPT	110	34	60	2	40	6DJ-4000	142.0	594	319.5	450	3,000
PWC800D2-T4-S	919,200	8.9	5" V	3.4	2 1/2" FPT	110	34	60	2	40	6DJ-4000	71.0	297	159.75	225	3,000
PWC1000D2-T3-S	1,107,600	6.4	5" V	4.7	2 1/2" FPT	120	34	60	2	50	8DP-5000	180.0	1070	405	500	3,490
PWC1000D2-T4-S	1,107,600	6.4	5" V	4.7	2 1/2" FPT	120	34	60	2	50	8DP-5000	90.0	535	202.5	250	3,490
PWC1200D2-T3-S	1,275,600	8.4	5" V	2.9	3" FPT	120	34	60	2	60	8DS-6000	224.0	1070	504	700	3,920
PWC1200D2-T4-S	1,275,600	8.4	5" V	2.9	3" FPT	120	34	60	2	60	8DS-6000	112.0	35	252	350	3,920

# Dual-Circuit Semi-Hermetic Water-Cooled Chiller



*Published nominal capacities based on ARI-590 standard, 54°F entering water, 44°F leaving water, 105°F condensing temperature.  
Published evaporator and condenser psi drop is based on a 10°F rT of water at nominal conditions.*

# Glycol Factor Tables

PROPYLENE GLYCOL CAPACITY CORRECTION FACTOR TABLE							
Propylene Glycol By Weight	15%	20%	25%	30%	35%	40%	50%
Freezing Point in °F	24°F	18°F	15°F	9°F	5°F	-5°F	-30°F
Capacity Factor Multiplier*	0.922	0.986	0.972	0.960	0.950	0.928	0.878
Pressure Drop Multiplier	1.04	1.08	1.13	1.21	1.26	1.47	2.79

ETHYLENE GLYCOL CAPACITY CORRECTION FACTOR TABLE							
Ethylene Glycol By Weight	10%	15%	20%	25%	30%	35%	40%
Freezing Point In °F	25°F	21°F	17°F	11°F	5°F	0°F	-10°F
Capacity Factor Multiplier*	0.98	.96	.95	.93	.92	.91	.89
Pressure Drop Multiplier	1.08	1.11	1.16	1.21	1.27	1.32	1.38

**Note:**

\*At standard ARI-590 conditions: 54°F entering fluid temperature, 44°F leaving fluid temperature, 95°F ambient temperature, .0005 fouling.





## MUELLER® WATER-COOLED SEMI-HERMETIC CHILLERS

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*Due to the manufacturer's policy of continuous product improvement, the manufacturer reserves the right to make changes without notice. Drawings in this booklet are representations of the equipment shown. Contact the factory for specific unit drawings.*