



Single-Circuit Chiller

Standard Features

Direct Drive Scroll Compressors

Direct-drive hermetically sealed scroll compressors with proven performance in industrial cooling for reliable, low maintenance, and efficient operation.

Stainless Steel Evaporator

High-efficiency stainless steel plates with copper brazing provide maximum performance, long life, and an enhanced level of protection from harsh process conditions.

Evaporator Inlet Strainer

The evaporator inlet strainer removes any debris present in the process fluid to prevent costly downtime and repair due to a clogged chiller evaporator.

Fits through Doors

Single circuit chillers up to 80 tons are compact and easily fit through standard 36-inch wide doors for easy maneuvering into tight installation spaces.

Dual Circuit Manifolds

Dual circuit chillers include evaporator manifolds and water-cooled condenser units include condenser water manifolds for quick and easy installation.

Modular Expandable System

Our modular system design provides for system expansion to over 1,000 tons using up to six chillers and twelve refrigeration circuits.

Single or Multiple Circuit Configurations

Dual-circuit chillers for redundancy and back up of critical processes or systems and single-circuit chillers for dedicated loads.

UL 508A Industrial Control Panel

Every chiller has a UL label certifying our panel design and components comply with UL 508A standards ensuring the panels are safe and consistent for reliable operation.

Color Touch-Screen Display

A high-resolution, high-speed, 7-inch color touch-screen with English text clearly shows chiller operation for quick and easy monitoring and control of the system.



Standard PLC Home Screen

CONNEX4.0 Ready Controls

Every chiller is equipped with an Ethernet port and is fully compatible with the CONNEX4.0 plant-wide equipment control and monitoring system.

Warranty

- 1 year entire unit parts
- 1 year labor

Available Options

Integral Reservoir and Pumping System

An integral stainless steel reservoir and pumping system all piped, insulated, and wired to the chiller control panel for a quick and easy complete chilled water system installation. Available on chillers up to 160 tons.

Rotary Non-Fused Disconnect Switch

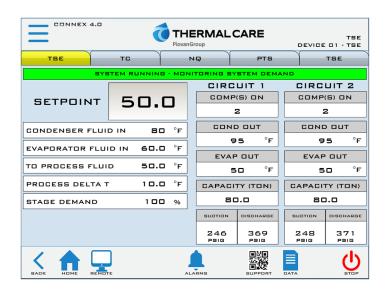
Adds a 5 kA SCCR (Short Circuit Current Rating) rotary non-fused disconnect switch to the control panel for safe lockout of main power.

12 inch HMI

Replaces the standard 7-inch screen with a 12-inch, high resolution, color screen with a built-in industrial computer to allow for remote monitoring and control using Teamviewer software installed on any remote Windows based PC or smart phone.

12-inch HMI and CONNEX4.0 Master Controller

Replaces the standard 7-inch screen with a 12-inch, high resolution, color screen with a built-in industrial computer to allow for remote monitoring and control using Teamviewer software installed on any remote Windows based PC or smart phone. This package also adds a second PLC to allow for connection of up to 15 total Thermal Care CONNEX4.0 ready devices for many ways to interact with the connected equipment such as smart phone/tablet control, configurable email and text alerts for alarms, warnings, event alerts, and data collection.



BACnet Communications Port

Adds a ModBUS to BACnet gateway which is wired to a RS-485 connector on the chiller control panel.

Water-Cooled Condenser Single-Circuit Chillers

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	TSEW010S	TSEW015S	TSEW020S	TSEW025S	TSEW030S	TSEW040S
Cooling Capacity ¹	11 tons (39 kW)	16 tons (56 kW)	22 tons (77 kW)	27 tons (95 kW)	32 tons (113 kW)	42 tons (148 kW)
Set Point Range	20 to 80°F					
Set Foint Range	-7 to 27°C					
Compressors (qty)	2	2	2	2	2	2
Process In/Out (in) – Standard	11/2	11/2	2	2	21/2	21/2
w/high flow evaporator option	2	21/2	21/2	3	3	4
Condenser Water In & Out (in)	11/2	2	2	21/2	21/2	3
Length	68 in (173 cm)	72 in (183 cm)	75 in (191 cm)	75 in (191 cm)	77 in (196 cm)	102 in (259 cm)
Width	30 in (76 cm)					
Height	68 in (173 cm)					
Ship Weight	990 lbs	1,072 lbs	1,149 lbs	1,189 lbs	1,339 lbs	1,763 lbs
Silip Weight	449 kg	486 kg	521 kg	539 kg	607 kg	800 kg
Operating Weight	1,005 lbs	1,092 lbs	1,179 lbs	1,222 lbs	1,376 lbs	1,823 lbs
	456 kg	495 kg	535 kg	554 kg	624 kg	827 kg
MCA @ 460/3/60 (amps) ²	23	37	48	57	64	82
MOP @ 460/3/60 (amps) ³	35	60	70	90	100	125
Reservoir Capacity	275 gal (1,041 L)					
Process / Chiller Pump (hp)	5/1.5	5/1.5	5/1.5	5/1.5	7.5/2	10/2
Process Connection Size (in)	11/2	11/2	2	2	21/2	21/2
Condenser Water In & Out (in)	11/2	2	2	21/2	21/2	3
Length	99 in (252 cm)					
Width	68 in (173 cm)	72 in (183 cm)	75 in (191 cm)	75 in (191 cm)	78 in (198 cm)	98 in (249 cm)
Height	73 in (185 cm)					
Ship Weight	2,337 lbs	2,418 lbs	2,496 lbs	2,537 lbs	2,769 lbs	3,238 lbs
Ship Weight	1,061 kg	1,097 kg	1,132 kg	1,151 kg	1,256 kg	1,469 kg
Operating Weight	4,631 lbs	4,712 lbs	4,790 lbs	4,831 lbs	5,063 lbs	5,532 lbs
	2,101 kg	2,137 kg	2,173 kg	2,191 kg	2,297 kg	2,509 kg
MCA @ 460/3/60 (amps) ²	33	45	55	63	74	94
MOP @ 460/3/60 (amps) ³	45	70	80	100	110	150
Reservoir Capacity	400 gal (1,514 L)					
Process/Chiller Pump (hp)	5/1.5	7.5/1.5	10/1.5	10/1.5	10/2	15/2
Process Connection Size (in)	2	21/2	21/2	3	3	4
Condenser Water In & Out (in)	11/2	2	2	21/2	21/2	3
Length	99 in (252) cm	99 in (252 cm)	99 in (252) cm			
Width	68 in (173 cm)	72 in (183 cm)	75 in (191 cm)	75 in (191 cm)	78 in (198 cm)	98 in (249 cm)
Height	73 in (185 cm)					
Ship Weight	2,850 lbs	2,950 lbs	3,100 lbs	3,150 lbs	3,450 lbs	4,000 lbs
Ship weight	1,293 kg	1,338 kg	1,406 kg	1,429 kg	1,565 kg	1,815 kg
Operating Weight	6,200 lbs	6,300 lbs	6,450 lbs	6,500 lbs	6,800 lbs	7,350 lbs
. 3	2,812 kg	2,858 kg	2,926 kg	2,948 kg	3,084 kg	3,334 kg
MCA @ 460/3/60 (amps) ²	33	51	65	74	81	106
MOP @ 460/3/60 (amps) ³	45	70	90	100	110	150

¹Cooling capacity when cooling water with 50°F (10°C) set point, 60°F (16°C) return, 85°F (29°C) condenser water, R410A or R454B refrigerant.

²MCA-Minimum Circuit Amps under full load, used for minimum wire size requirement.

³MOP-Maximum Overcurrent Protection, used for sizing main power protection device.

Water-Cooled Condenser Single-Circuit Chillers (continued)

Water Cooled Condens	TSEW050S	TSEW060S	TSEW080S	TSEW100S	TSEW120S		
Cooling Capacity ¹	53 tons (186 kW)	69 tons (243 kW)	86 tons (302 kW)	110 tons (387 kW)	128 tons (450 kW)		
	20 to 80°F	20 to 80°F	20 to 80°F	20 to 80°F	20 to 80°F		
Set Point Range	-7 to 27°C	-7 to 27°C	-7 to 27°C	-7 to 27°C	-7 to 27°C		
Compressors (qty)	2	2	2	3	3		
Process In/Out (in) – Standard	3	4	4	4	4		
w/high flow evaporator option	4	4	n/a	6	6		
Condenser Water In & Out (in)	3	4	4	4	4		
Length	92 in (234 cm)	102 in (259 cm)	102 in (259 cm)	123 in (312 cm)	125 in (318 cm)		
Width	36 in (91 cm)	36 in (91 cm)	36 in (91 cm)	30 in (76 cm)	30 in (76 cm)		
Height	68 in (173 cm)	68 in (173 cm)	68 in (173 cm)	70 in (178 cm)	71 in (180 cm)		
Ship Waight	1,802 lbs	2,294 lbs	2,467 lbs	3,230 lbs	3,250 lbs		
Ship Weight	817 kg	1,041 kg	1,119 kg	1,465 kg	1,474 kg		
Operating Weight	1,872 lbs	2,380 lbs	2,557 lbs	3,330 lbs	3,350 lbs		
	849 kg	1,080 kg	1,160 kg	1,510 kg	1,520 kg		
MCA @ 460/3/60 (amps) ²	100	124	172	209	247		
MOP @ 460/3/60 (amps) ³	150	175	250	300	350		
Reservoir Capacity	275 gal (1,041 L)	450 gal (1,703 L)	450 gal (1,703 L)				
Process / Chiller Pump (hp)	10/3	10/3	15/3				
Process Connection Size (in)	3	3	4				
Condenser Water In & Out (in)	3	4	4				
Length	102 in (259 cm)	114 in (290 cm)	114 in (290 cm)	The TSEW100S and TSEW120S are			
Width	102 in (259 cm)	101 in (257 cm)	101 in (257 cm)				
Height	73 in (185 cm)	73 in (185 cm)	73 in (185 cm)	available with an integral reservo			
Ship Weight	3,374 lbs	4,147 lbs	4,370 lbs		3		
	1,530 kg	1,881 kg	1,982 kg				
Operating Weight	5,668 lbs	7,901 lbs	8,124 lbs				
	2,571 kg	3,584 kg	3,685 kg				
MCA @ 460/3/60 (amps) ²	111	132	184				
MOP @ 460/3/60 (amps) ³	175	200	300				
Reservoir Capacity	400 gal (1,514 L)	650 gal (2,461 L)	650 gal (2,461 L)				
Process/Chiller Pump (hp)	15/3	20/3	25/3				
Process Connection Size (in)	4	4	6				
Condenser Water In & Out (in)	3	4	4				
Length	102 in (259 cm)	114 in (290 cm)	114 in (290 cm)				
Width	102 in (259 cm)	101 in (257 cm)	101 in (257 cm)	The TSEW100S and	TSEW120S are not		
Height	73 in (185 cm)	73 in (185 cm)	73 in (185 cm)	available with an			
Ship Weight	4,250 lbs	4,950 lbs	5,750 lbs				
	1,928 kg	2,245 kg	2,608 kg				
Operating Weight	7,600 lbs	10,400 lbs	11,200 lbs				
	3,447 kg	4,717 kg	5,080 kg				
MCA @ 460/3/60 (amps) ²	126	155	211				
MOP @ 460/3/60 (amps) ³	175	200 Fot point 60°E (16°C)	300 V roturn 85°E (20°C)				

¹Cooling capacity when cooling water with 50°F (10°C) set point, 60°F (16°C) return, 85°F (29°C) condenser water, R410A or R454B refrigerant.

²MCA Minimum Circuit Amps under full load, used for minimum wire size requirement

³MOP-Maximum Overcurrent Protection, used for sizing main power protection device.

Water-Cooled Condenser Dual-Circuit Chillers

	TSEW020D	TSEW030D	TSEW040D	TSEW050D	TSEW060D	TSEW080D
Cooling Capacity ¹	22 tons (77 kW)	32 tons (113 kW)	44 tons (155 kW)	54 tons (190 kW)	65 tons (229 kW)	84 tons (295 kW)
Cat Daint Dance	20 to 80°F					
Set Point Range	-7 to 27°C					
Compressors Circuit 1 (qty)	2	2	2	2	2	2
Compressors Circuit 2 (qty)	2	2	2	2	2	2
Process In/Out (in) – Standard	2	21/2	21/2	3	3	4
w/high flow evaporator option	21/2	3	4	4	4	6
Condenser Water In/Out (in)	2	21/2	3	3	4	4
Length	76 in (193 cm)	77 in (196 cm)	80 in (203 cm)	81 in (206 cm)	87 in (221 cm)	117 in (297 cm)
Width	48 in (122 cm)	49 in (125 cm)	50 in (127 cm)	50 in (127 cm)	52 in (132 cm)	51 in (130 cm)
Height	68 in (173 cm)					
Ship Waight	1,925 lbs	2,093 lbs	2,255 lbs	2,343 lbs	2,657 lbs	3,516 lbs
Ship Weight	873 kg	949 kg	1,023 kg	1,063 kg	1,205 kg	1,595 kg
Operating Weight	1,955 lbs	2,133 lbs	2,315 lbs	2,409 lbs	2,731 lbs	3,636 lbs
	887 kg	968 kg	1,050 kg	1,093 kg	1,239 kg	1,649 kg
MCA @ 460/3/60 (amps) ²	42	69	90	107	120	154
MOP @ 460/3/60 (amps) ³	60	90	125	150	150	200
Reservoir Capacity	275 gal (1,041 L)	450 gal (1,703 L)	450 gal (1,703 L)			
Process/Chiller Pump (hp)	5/1.5	7.5/2	10/2	10/3	10/3	15/3
Process Connection Size (in)	2	21/2	21/2	3	3	4
Condenser Water In/Out (in)	2	21/2	3	3	4	4
Length	123 in (312 cm)	135 in (343 cm)	135 in (343 cm)			
Width	74 in (188 cm)	74 in (188 cm)	77 in (196 cm)	78 in (198 cm)	81 in (206 cm)	98 in (249 cm)
Height	73 in (185 cm)	73 in (185 cm)	73 in (185 cm)	75 in (191 cm)	75 in (191 cm)	79 in (201 cm)
Ship Weight	3,486 lbs	3,748 lbs	3,948 lbs	4,068 lbs	4,546 lbs	5,390 lbs
Simp Weight	1,581 kg	1,700 kg	1,791 kg	1,845 kg	2,062 kg	2,445 kg
Operating Weight	5,780 lbs	6,042 lbs	6,229 lbs	6,362 lbs	8,300 lbs	9,144 kg
	2,622 kg	2,741 kg	2,825 kg	2,886 kg	3,765 kg	4,148 kg
MCA @ 460/3/60 (amps) ²	53	84	108	126	139	180
MOP @ 460/3/60 (amps) ³	70	100	150	175	175	225
Reservoir Capacity	400 gal (1,514 L)	650 gal (2,461 L)	650 gal (2,461 L)			
Process/Chiller Pump (hp)	10/1.5	10/2	15/2	15/3	20/3	25/3
Process Connection Size (in)	21/2	3	4	4	4	6
Condenser Water In/Out (in)	2	21/2	3	3	4	4
Length	123 in (312 cm)		135 in (343 cm)			
Width	74 in (188 cm)			78 in (198 cm)	81 in (206 cm)	
Height	73 in (185 cm)	73 in (185 cm)	73 in (185 cm)	75 in (191 cm)	75 in (191 cm)	79 in (201 cm)
Ship Weight	5,950 lbs	6,400 lbs	6,750 lbs	6,950 lbs	8,950 lbs	10,300 lbs
	2,699 kg	2,903 kg	3,062 kg	3,153 kg	4,060 kg	4,672 kg
Operating Weight	7,200 lbs	7,650 lbs	8,000 lbs	8,200 lbs	10,900 lbs	12,250 lbs
	3,266 kg	3,470 kg	3,629 kg	3,720 kg	4,944 kg	5,557 kg
MCA @ 460/3/60 (amps) ²	61	87	115	133	152	193
MOP @ 460/3/60 (amps) ³	80	110	150	175	200	250

^{.1}Cooling capacity when cooling water with 50°F (10°C) set point, 60°F (16°C) return, 85°F (29°C) condenser water, R410A or R454B refrigerant.

²MCA is Minimum Circuit Amps under full load, used for minimum wire size requirement.

³MOP is Maximum Overcurrent Protection, used for sizing main power protection device.

⁴To keep shipping dimensions within the 102" (259cm) width of a standard flatbed, the condenser inlet manifold ships separately.

Water-Cooled Condenser Dual-Circuit Chillers (continued)

Set Point Range -7 to 27°C -7)D		
Set Point Range 20 to 80°F -7 to 27°C 20 to 20 to 20 to 30 to 20 to 30 to 20 to 30 to	0 to 80°F 7 to 27°C 3 6 8 6 (368 cm		
Set Point Range	7 to 27°C		
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Condenser Water In/Out (in) 4 6 6 6 Length 113 in (287 cm) 119 in (302 cm) 120 in (305 cm) 139 in (353 cm) 141 in Width 52 in (132 cm) 54 in (137 cm) 54 in (137 cm) 60 in (152 cm) 60 in Height 68 in (173 cm) 68 in (173 cm) 68 in (173 cm) 70 in (178 cm) 71 in Ship Weight 3,595 lbs 4,361 lbs 4,736 lbs 5.760 in 2,613 kg Operating Weight) 3,735 lbs 4,533 lbs 4,916 lbs 5,960 lbs 2,613 kg MCA @ 460/3/60 (amps)² 188 233 324 397 397 MOP @ 460/3/60 (amps)³ 250 300 400 500 500 Reservoir Capacity 700 gal (2,650 L) 700 gal (2,650 L) 1,000 gal (3,785 L) 1,000 gal (3,	(368 cm		
Length			
Width 52 in (132 cm) 54 in (137 cm) 54 in (137 cm) 60 in (152 cm) 70 in (178 cm) 71 in (152 cm) 70 in (178 cm) 71 in (71 cm) 71 in (71 cm) 70 in (178 cm) 71 in (71 cm) 70 in (71 cm) 70 in (71 cm) 20 in (78 cm) 30 cm 40 cm			
Height 68 in (173 cm) 68 in (173 cm) 70 in (178 cm) 71 in (181 c	(152 cm)		
Ship Weight 3,595 lbs 1,631 kg 4,361 lbs 1,978 kg 4,736 lbs 2,148 kg 5,760 in 2,613 kg Operating Weight) 3,735 lbs 1,694 kg 2,056 kg 2,230 kg 2,703 kg MCA @ 460/3/60 (amps)² 188 233 324 397 MOP @ 460/3/60 (amps)³ 250 300 400 500 Reservoir Capacity 700 gal (2,650 L) 700 gal (2,650 L) 1,000 gal (3,785 L) 25/10 Process Connection Size (in) 4 4 6 6 Condenser Water In/Out (in) 4 6 6 6 Length 135 in (343 cm) 1114 in (282 cm) The TSEW200D and TSEW240 available with an integral result of the same integral result of t			
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MCA @ 460/3/60 (amps) ² MCA @ 460/3/60 (amps) ³ MOP @ 460/3/60 (amps) ³ Reservoir Capacity Process/Chiller Pump (hp) Process/Chiller Pump (hp) 15/5 20/7.5 25/10 Process Connection Size (in) Condenser Water In/Out (in) 4 4 6 Condenser Water In/Out (in) 135 in (343 cm) 135 in (343 cm) 1114 in (282 cm) Width 102 in (259 cm) 1114 in (282 cm) 79 in (201 cm) 79 in (201 cm) 79 in (201 cm) 79 in (201 cm) Ship Weight 6,067 lbs 2,752 kg 3,248 kg 3,705 kg Operating Weight 11,936 kg 5,414 kg 5,896 kg MCA @ 460/3/60 (amps) ² 217 267 372	5,980 lbs		
MOP @ 460/3/60 (amps)³ 250 300 400 500 Reservoir Capacity 700 gal (2,650 L) 700 gal (2,650 L) 1,000 gal (3,785 L) 700 gal (3,785 L) Process/Chiller Pump (hp) 15/5 20/7.5 25/10 Process Connection Size (in) 4 4 6 Condenser Water In/Out (in) 4 6 6 Length 135 in (343 cm) 135 in (343 cm) 148 in (376 cm) Width 102 in (259 cm) 11114 in (282 cm) 11114 in (282 cm) Height 79 in (201 cm) 79 in (201 cm) 90 in (229 cm) Ship Weight 6,067 lbs 7,160 lbs 8,168 lbs 2,752 kg 3,248 kg 3,705 kg Operating Weight 11,936 kg 12,999 kg 16,510 kg MCA @ 460/3/60 (amps)² 217 267 372	2,713 kg		
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Ship Weight 6,067 lbs 2,752 kg 7,160 lbs 3,248 kg 8,168 lbs 3,705 kg Operating Weight 11,936 kg 5,414 kg 12,999 kg 5,896 kg 16,510 kg 7,489 kg MCA @ 460/3/60 (amps)² 217 267 372			
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Operating weight 5,414 kg 5,896 kg 7,489 kg MCA @ 460/3/60 (amps)² 217 267 372			
MCA @ 460/3/60 (amps) ² 217 267 372			
MOP @ 460/3/60 (amps) ³ 300 450			
Reservoir Capacity 1,000 gal (3,785 L) 1,000 gal (3,785 L) 1,000 gal (3,785 L)			
Process/Chiller Pump (hp) 30/5 40/7.5 40/10			
Process Connection Size (in) 6 6			
Condenser Water In/Out (in) 4 6			
Length 135 in (343 cm) 135 in (343 cm) 148 in (376 cm)			
Width 102 in (259 cm) 111 ⁴ in (282 cm) 111 ⁴ in (282 cm)	_		
Height 79 in (201 cm) 79 in (201 cm) 90 in (229 cm) The TSEW200D and TSEW240l available with an integral re	1 are		
13 050 lbs 14 150 lbs 18 500 lbs			
Ship Weight 5,919 kg 6,418 kg 8,392 kg			
Operating Weight 16,250 lbs 17,250 kg 19,500 kg			
7,371 kg 7,825 kg 8,845 kg			
MCA @ 460/3/60 (amps) ² 236 292 390			
MOP @ 460/3/60 (amps) ³ 300 350 500			

[.]¹Cooling capacity when cooling water with 50°F (10°C) set point, 60°F (16°C) return, 85°F (29°C) condenser water, R410A or R454B refrigerant.

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Remote Air-Cooled Condenser Single-Circuit Chillers

Remote Air Cooled Cont	1	irealt Chillers			
	TSER	TSER	TSER	TSER	TSER
Cooling Capacity ¹	010S 10 tons (35 kW)	015S 15 tons (53 kW)	020S 20 tons (70 kW)	025S 25 tons (88 kW)	030S 30 tons (105 kW)
Cooling Capacity	20 to 80°F			20 to 80°F	20 to 80°F
Set Point Range	-7 to 27°C	20 to 80°F -7 to 27°C	20 to 80°F -7 to 27°C	-7 to 27°C	-7 to 27°C
Compressors (qty)	2	2	2	2	2
Process In/Out(in) – Standard	11/2	11/2	2	2	21/2
w/high flow evaporator option	2	21/2	21/2	3	3
Refrigerant Discharge Line (in)	7/8	11/8	11/8	13/8	13/8
Refrigerant Liquid Line (in)	5/8	7/8	7/8	11/8	11/8
Length	64 in (163 cm)	65 in (165 cm)	68 in (173 cm)	68 in (173 cm)	74 in (188 cm)
Width	30 in (76 cm)	30 in (76 cm)			
Height	68 in (173 cm)	68 in (173 cm)			
Ship Weight	897 lbs	1,024 lbs	1,060 lbs	1,076 lbs	1,202 lbs
Jimp Weight	407 kg	465 kg	481 kg	488 kg	545 kg
Operating Weight	912 lbs	1,044 lbs	1,090 lbs	1,109 lbs	1,239 lbs
	414 kg	474 kg	494 kg	503 kg	562 kg
MCA @ 460/3/60 (amps) ²	23	37	48	57	64
MOP @ 460/3/60 (amps) ³	35	60	70	90	100
Reservoir Capacity	275 gal (1,041 L)	275 gal (1,041 L)			
Process/Chiller Pump (hp)	5/1.5	5/1.5 1½	5/1.5 2	5/1.5	7.5/2
Process Connection Size (in) Refrigerant Discharge Line (in)	11/2	11/8	11/8	2 1¾	2½ 1¾
Refrigerant Liquid Line (in)	5/8	7/8	7/8	11/8	11/8
Length	99 in (252 cm)	99 in (252 cm)			
Width	66 in (168 cm)	66 in (168 cm)	67 in (170 cm)	67 in (170 cm)	71 in (180 cm)
Height	73 in (185 cm)	73 in (185 cm)			
	2,267 lbs	2,370 lbs	2,407 lbs	2,423 lbs	2,628 lbs
Ship Weight	1,028 kg	1,075 kg	1,092 kg	1,099 kg	1,192 kg
Operating Weight	4,561 lbs	4,664 lbs	4,701 lbs	4,717 lbs	4,922 lbs
	2,069 kg	2,116 kg	2,132 kg	2,140 kg	2,233 kg
MCA @ 460/3/60 (amps) ²	33	45	55	63	74
MOP @ 460/3/60 (amps) ³	45	70	80	100	110
Reservoir Capacity	400 gal (1,514 L)	400 gal (1,514 L)			
Process/Chiller Pump (hp)	5/1.5	7.5/1.5	10/1.5	10/1.5	10/2
Process Connection Size(in)	2	21/2	21/2	3	3
Refrigerant Discharge Line (in)	7/8	11/8	11/8	13/8	13/8
Refrigerant Liquid Line (in)	5/8	7/8	7/8	11/8	11/8
Length Width	99 in (252 cm) 66 in (168 cm)	99 in (252 cm)	99 in (252 cm) 67 in (170 cm)	99 in (252 cm) 67 in (170 cm)	99 in (252 cm)
Height	73 in (185 cm)	66 in (168 cm) 73 in (185 cm)	73 in (185 cm)	73 in (170 cm)	71 in (180 cm)
	2,800 lbs	2,950 lbs	2,950 lbs	3,000 lbs	73 in (185 cm) 3,300 lbs
Ship Weight	1,270 kg	1,338 kg	1,338 kg	1,361 kg	1,497 kg
0	6,150 lbs	6,300 lbs	6,300 lbs	6,350 lbs	6,650 lbs
Operating Weight	2,790 kg	2,858 kg	2,858 kg	2,880 kg	3,016 kg
MCA @ 460/3/60 (amps) ²	33	51	65	74	81
MOP @ 460/3/60 (amps) ³	45	70	90	100	110

¹Cooling capacity when cooling water with 50°F (10°C) set point, 60°F (16°C) return, 95°F (35°C) condenser air, R410A or R454B refrigerant.

²MCA is Minimum Circuit Amps under full load, used for minimum wire size requirement.

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Remote Air-Cooled Condenser Single-Circuit Chillers (continued)

	TSER 040S	TSER 050S	TSER 060S	TSER 080S
Cooling Capacity ¹	39 tons (137 kW)	49 tons (172 kW)	64 tons (225 kW)	79 tons (278 kW)
Set Point Range	20 to 80°F	20 to 80°F	20 to 80°F	20 to 80°F
	-7 to 27°C	-7 to 27°C	-7 to 27°C	-7 to 27°C
Compressors (qty)	2	2	2	2
Process In/Out(in) – Standard	21/2	3	4	4
w/high flow evaporator option	4	4	4	n/a
Refrigerant Discharge Line (in)	13/8	15/8	15/8	21/8
Refrigerant Liquid Line (in)	1½ 102 in (250 and)	11/8	13%	15%
Length Width	102 in (259 cm) 30 in (76 cm)	99 in (252 cm)	102 in (259 cm)	102 in (259 cm) 36 in (91 cm)
Height	68 in (173 cm)	36 in (91 cm) 68 in (173 cm)	36 in (91 cm) 68 in (173 cm)	68 in (173 cm)
neight	1,554 lbs	1,588 lbs	1,995 lbs	2,161 lbs
Ship Weight	705 kg	720 kg	905 kg	2,101 lbs 980 kg
	1,614 lbs	1,658 lbs	2,081 lbs	2,251 lbs
Operating Weight	732 kg	752 kg	944 kg	1021 kg
MCA @ 460/3/60 (amps) ²	82	100	124	172
MOP @ 460/3/60 (amps) ³	125	150	175	250
Reservoir Capacity	275 gal (1,041 L)	275 gal (1,041 L)	450 gal (1,703)	450 gal (1,703)
Process/Chiller Pump (hp)	10/2	10/3	10/3	15/3
Process Connection Size (in)	21/2	3	3	4
Refrigerant Discharge Line (in)	15/8	15/8	15/8	21/8
Refrigerant Liquid Line (in)	11/8	11/8	13/8	15⁄8
Length	99 in (252 cm)	102 in (259 cm)	114 in (290 cm)	114 in (290 cm)
Width	98 in (249 cm)	102 in (259 cm)	101 in (257 cm)	101 in (257 cm)
Height	73 in (185 cm)	73 in (185 cm)	73 in (185 cm)	73 in (185 cm)
Ship Weight	3,030 lbs	3,158 lbs	3,846 lbs	4,063 lbs
	1,374 kg	1,432 kg	1,745 kg	1,843 kg
Operating Weight	5,324 lbs	5,452 lbs	7,600 lbs	7,817 lbs
	2,415 kg	2,473 kg	3,447 kg	3,546 kg
MCA @ 460/3/60 (amps) ²	94	111	132	184
MOP @ 460/3/60 (amps) ³	150	175	200	300
Reservoir Capacity Process/Chiller Pump (hp)	400 gal (1,514 L)	400 gal (1,514 L)	650 gal (2,461 L) 20/3	650 gal (2,461 L)
Process Connection Size(in)	15/2	15/3	20/3	25/3 6
Refrigerant Discharge Line (in)	15/8	4 15/8	15%	21/8
Refrigerant Liquid Line (in)	11/8	11/8	13/8	15/8
Length	99 in (252 cm)	102 in (259 cm)	114 in (290 cm)	114 in (290 cm)
Width	98 in (249 cm)	102 in (259 cm)	101 in (257 cm)	101 in (257 cm)
Height	73 in (185 cm)	73 in (185 cm)	73 in (185 cm)	73 in (185 cm)
5	3,750 lbs	4,000 lbs	4,600 lbs	5,350 lbs
Ship Weight	1,701 kg	1,814 kg	2,087 kg	2,427 kg
	7,100 lbs	7,350 lbs	10,050 lbs	10,800 lbs
Operating Weight	3,221 kg	3,334 kg	4,559 kg	4,899 kg
MCA @ 460/3/60 (amps) ²	106	126	155	211
MOP @ 460/3/60 (amps) ³	150	175	200	300

¹Cooling capacity when cooling water with 50°F (10°C) set point, 60°F (16°C) return, 95°F (35°C) condenser air, R410A or R454B refrigerant.

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Remote Air-Cooled Condenser Dual-Circuit Chillers

remote / iii coolea collaci	isci Baai Cire	care crimers			
	TSER 020D	TSER 030D	TSER 040D	TSER 050D	TSER 060D
Cooling Capacity ¹	20 tons (70 kW)	30 tons (105 kW)	41 tons (144 kW)	50 tons (176 kW)	60 tons (211 kW)
	20 to 80°F	20 to 80°F	20 to 80°F	20 to 80°F	20 to 80°F
Set Point Range	-7 to 27°C	-7 to 27°C	-7 to 27°C	-7 to 27°C	-7 to 27°C
Compressors Circuit 1 (qty)	2	2	2	2	2
Compressors Circuit 2 (qty)	2	2	2	2	2
Process In/Out(in) – Standard	2	21/2	21/2	3	3
w/high flow evaporator option	21/2	3	4	4	4
Refrigerant Discharge Line/Circuit (in)	7/8	11/8	11/8	13/8	13/8
Refrigerant Liquid Line/Circuit (in)	5/8	7∕8	7∕8	11/8	11/8
	76 in (193 cm)	77 in (196 cm)	80 in (203 cm)	81 in (206 cm)	87 in (221 cm)
Length Width	1				
	48 in (122 cm)	48 in (122 cm)	48 in (122 cm)	48 in (122 cm)	48 in (122 cm)
Height	68 in (173 cm) 1,722 lbs	68 in (173 cm)			
Ship Weight	781 kg	1,760 lbs 798 kg	1,834 lbs 832 kg	2,091 lbs 949 kg	2,335 lbs 1,059 kg
Operating Weight	1,752 lbs	1,800 lbs	1,894 lbs	2,157 lbs	2,409 lbs
Operating Weight	795 kg	817 kg	859 kg	978 kg	1,093 kg
MCA @ 460/3/60 (amps) ²	42	69	90	107	120
MOP @ 460/3/60 (amps) ³	60	90	125	150	150
Reservoir Capacity	275 gal (1,041 L)	275 gal (1,041 L)	275 gal (1,041 L)	275 gal (1,041 L)	450 gal (1,703 L)
Process/Chiller Pump (hp)	5/1.5	7.5/2	10/2	10/3	10/3
Process Connection Size (in)	2	21/2	21/2	3	3
Refrigerant Discharge Line/Circuit (in)	7/8	11/8	11/8	13/8	13/8
Refrigerant Liquid Line/Circuit (in)	5/8	7/8	7/8	11/8	11/8
Length	123 in (312 cm)	123 in (312 cm)	123 in (312 cm)	123 in (312 cm)	135 in (343 cm)
Width	66 in (168 cm)	66 in (168 cm)	67 in (170 cm)	68 in (173 cm)	71 in (180 cm)
Height	72 in (183 cm)	72 in (183 cm)	72 in (183 cm)	75 in (191 cm)	75 in (191 cm)
Ship Weight	3,335 lbs	3,634 lbs	3,624 lbs	3,814 lbs	4,224 lbs
Ship Weight	1,513 kg	1,648 klg	1,644 kg	1,730 kg	1,916 kg
Operating Weight	5,629 lbs	5,928 lbs	5,918 lbs	6,109 lbs	7,978 lbs
	2,553 kg	2,689 kg	2,684 kg	2,771 kg	3,619 kg
MCA @ 460/3/60 (amps) ²	53	84	108	126	139
MOP @ 460/3/60 (amps) ³	70	100	150	175	175
Reservoir Capacity	400 gal (1,514 L)	400 gal (1,514 L)	400 gal (1,514 L)	400 gal (1,514 L)	650 gal (2,461 L)
Process/Chiller Pump (hp)	10/1.5	10/2	15/2	15/3	20/3
Process Connection Size (in)	21/2	3	4	4	4
Refrigerant Discharge Line/Circuit (in)	7/8	11/8	11/8	13/8	1³⁄8
Refrigerant Liquid Line/Circuit (in)	5/8	7/8	7/8	11/8	11/8
Length	123 in (312 cm)	123 in (312 cm)	123 in (312 cm)	123 in (312 cm)	135 in (343 cm)
Width	66 in (168 cm)	66 in (168 cm)	67 in (170 cm)	68 in (173 cm)	71 in (180 cm)
Height	72 in (183 cm)	72 in (183 cm)	72 in (183 cm)	75 in (191 cm)	75 in (191 cm)
Ship Waight	3,850 lbs	4,200 lbs	4,400 lbs	4,550 lbs	5,050 lbs
Ship Weight	1,746 kg	1,905 kg	1,996 kg	2,064 kg	2,291 kg
Operating Weight	7,200 lbs	7,550 lbs	7,750 lbs	7,900 lbs	10,500 lbs
	3,266 kg	3,425 kg	3,515 kg	3,583 kg	4,763 kg
MCA @ 460/3/60 (amps) ²	61	87	115	133	152
MOP @ 460/3/60 (amps) ³	80	110	150	175	200

¹Cooling capacity when cooling water with 50°F (10°C) set point, 60°F (16°C) return, 95°F (35°C) condenser air, R410A or R454B refrigerant.

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Remote Air-Cooled Condenser Dual-Circuit Chillers (continued)

Nemote All-Cooled Conde	TSER	TSER	TSER	TSER
Cooling Capacity ¹	080D 78 tons (274 kW)	100D 98 tons (345 kW)	120D 127 tons (447 kW)	160D 158 tons (556 kW)
Cooling Capacity	20 to 80°F	20 to 80°F	20 to 80°F	20 to 80°F
Set Point Range	-7 to 27°C	-7 to 27°C	-7 to 27°C	-7 to 27°C
Compressors Circuit 1 (qty)	2	2	2	2
Compressors Circuit 2 (qty)	2	2	2	2
Process In/Out(in) – Standard	4	4	4	6
w/high flow evaporator option	6	6	6	n/a
Refrigerant Discharge Line/Circuit (in)	13/8	15/8	15/8	21/8
Refrigerant Liquid Line/Circuit (in)	11/8	11/8	13/8	15/8
Length	117 in (297) cm	113 in (287 cm)	116 in (295 cm)	120 in (305 cm)
Width	49 in (125) cm	49 in (125 cm)	49 in (125 cm)	51 in (130 cm)
Height	68 in (173 cm)	68 in (173 cm)	68 in (173 cm)	68 in (173 cm)
	3,061 lbs	3,129 lbs	3,820 lbs	4,069 lbs
Ship Weight	1,388 kg	1,419 kg	1,733 kg	1,846 kg
0	3,181 lbs	3,269 lbs	3,992 lbs	4,249 lbs
Operating Weight	1,443 kg	1,483 kg	1,811 kg	1,927 kg
MCA @ 460/3/60 (amps) ²	154	188	233	324
MOP @ 460/3/60 (amps) ³	200	250	300	400
Reservoir Capacity	450 gal (1,703 L)	700 gal (2,650 L)	700 gal (2,650 L)	1,000 gal (3,785 L)
Process/Chiller Pump (hp)	15/3	15/5	20/7.5	25/10
Process Connection Size (in)	4	4	4	6
Refrigerant Discharge Line/Circuit (in)	15/8	15/8	15/8	21/8
Refrigerant Liquid Line/Circuit (in)	11/8	11/8	13/8	15/8
Length	135 in (343 cm)	135 in (343 cm)	135 in (343 cm)	148 in (376 cm)
Width	99 in (252 cm)	99 in (252 cm)	98 in (249 cm)	101 in (257 cm)
Height	75 in (191 cm)	78 in (198 cm)	79 in (201 cm)	90 in (229 cm)
Ship Waight	5,040 lbs	5,628 lbs	6,478 lbs	7,499 lbs
Ship Weight	2,286 kg	2,553 kg	2,938 kg	3,402 kg
Operating Weight	8,794 lbs	11,467 lbs	12,317 lbs	15,841 lbs
-	3,989 kg	5,201 kg	5,587 kg	7,186 kg
MCA @ 460/3/60 (amps) ²	180	217	267	372
MOP @ 460/3/60 (amps) ³	225	300	300	450
Reservoir Capacity	650 gal (2,461 L)	1,000 gal (3,785 L)	1,000 gal (3,785 L)	1,000 gal (3,785 L)
Process/Chiller Pump (hp)	25/3	30/5	40/7.5	40/10
Process Connection Size (in)	6	6	6	6
Refrigerant Discharge Line/Circuit (in)	15/8	15⁄8	15/8	21/8
Refrigerant Liquid Line/Circuit (in)	11/8	11/8	13/8	15/8
Length	135 in (343 cm)	135 in (343 cm)	135 in (343 cm)	148 in (376 cm)
Width	99 in (252 cm)	99 in (252 cm)	98 in (249 cm)	101 in (257 cm)
Height	75 in (191 cm)	78 in (198 cm)	79 in (201 cm)	90 in (229 cm)
Ship Weight	6,250 lbs	7,300 lbs	8,100 lbs	10,300 lbs
	2,835 kg	3,311 kg	3,674 kg	4,672 kg
Operating Weight	11,700 lbs	15,650 lbs	16,450 lbs	18,650 lbs
1 3 3	5,307 kg	7,099 kg	7,462 kg	8,460 kg
MCA @ 460/2/60 (amps)2	193	236	292	390
MCA @ 460/3/60 (amps) ² MOP @ 460/3/60 (amps) ³	250	300	350	500

¹Cooling capacity when cooling water with 50°F (10°C) set point, 60°F (16°C) return, 95°F (35°C) condenser air, R410A or R454B refrigerant.

 $^{^2\}mbox{MCA}$ is Minimum Circuit Amps under full load, used for minimum wire size requirement.

³MOP is Maximum Overcurrent Protection, used for sizing main power protection device.

Remote Condensers (Single-Circuit)

Model	KCM014	KCL023	KCL030	KCL037	KCL045	KCL056	KCL068	KCL095	KCL110
Chiller Used With	TSER010S	TSER015S	TSER020S	TSER025S	TSER030S	TSER040S	TSER050S	TSER060S	TSER080S
Number of Fans	2	2	2	2	3	3	4	5	6
Refrigerant Inlet (in)	13/8	21/8	21/8	21/8	25/8	25/8	25/8	31/8	31/8
Refrigerant Outlet (in)	11/8	13/8	15/8	15⁄/8	15/8	21/8	21/8	25/8	25/8
Length	83 in	113 in	113 in	113 in	168 in	168 in	223 in	278 in	333 in
Length	211 cm	287 cm	287 cm	287 cm	427 cm	427 cm	566 cm	706 cm	846 cm
Width	43 in	45 in	45 in	45 in	45 in	45 in	45 in	45 in	45 in
Widti	109 cm	114 cm	114 cm	114 cm	114 cm	114 cm	114 cm	114 cm	114 cm
Height	48 in	54 in	54 in	54 in	54 in	54 in	54 in	54 in	54 in
Height	122 cm	137 cm	137 cm	137 cm	137 cm	137 cm	137 cm	137 cm	137 cm
Shipping Weight	415 lbs	680 lbs	720 lbs	1,050 lbs	1,075 lbs	1,450 lbs	1,475 lbs	1,950 lbs	2,300 lbs
Snipping Weight 1	188 kg	308 kg	327 kg	476 kg	488 kg	658 kg	669 kg	885 kg	1,043 kg
Operating Weight (lbs)			Varies based	on system ref	rigerant charg	e and operati	ng conditions		
MCA @ 460/3/60 (amps) ¹	3	7	7	7	10	10	16	16	21
MOP @ 460/3/60 (amps) ²	15	15	15	15	15	15	20	20	25

¹MCA is Minimum Circuit Amps, used for minimum wire size requirement.

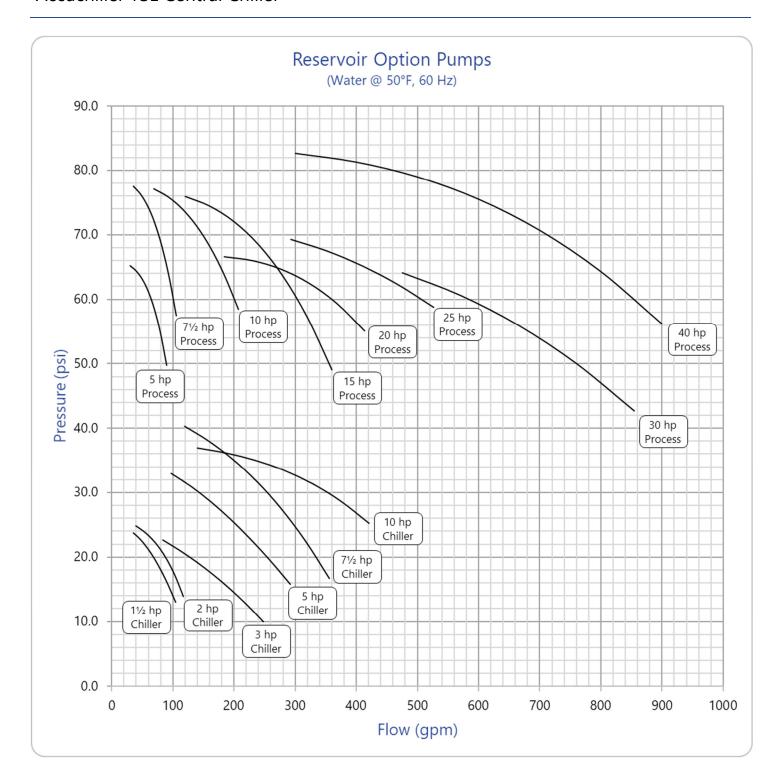
Remote Condensers (Dual-Circuit)

Remote condenses (Budi circuit)									
Model	KCM034	KCL047	KCL060	KCL074	KCL090	KCL112	KCL137	KCL190	KCL224
Chiller Used With	TSER020D	TSER030D	TSER040D	TSER050D	TSER060D	TSER080D	TSER100D	TSER120D	TSER160D
Number of Fans	4	4	4	4	6	6	8	10	12
Refrigerant Inlet (in)	15/8	21/8	21/8	21/8	21/8	25/8	25/8	31/8	31/8
Refrigerant Outlet (in)	11/8	13/8	15//8	15//8	15//8	21/8	21/8	25/8	25/8
Length (83 in	113 in	113 in	113 in	168 in	168 in	223 in	278 in	333 in
Length	211 cm	287 cm	287 cm	287 cm	427 cm	427 cm	566 cm	706 cm	846 cm
Width (83 in	87 in	87 in	87 in	87 in	87 in	87 in	87 in	87 in
	211 cm	221 cm	221 cm	221 cm	221 cm	221 cm	221 cm	221 cm	221 cm
Height (48 in	54 in	54 in	54 in	54 in	54 in	54 in	54 in	54 in
Tieight (122 cm	137 cm	137 cm	137 cm	137 cm	137 cm	137 cm	137 cm	137 cm
Ship Weight	830 lbs	1,175 lbs	1,525 lbs	1,525 lbs	2,000 lbs	2,275 lbs	2,800 lbs	3,700 lbs	4,400 lbs
Ship Weight	377 kg	533 kg	692 kg	692 kg	907 kg	1,032 kg	1,270 kg	1,678 kg	1,996 kg
Operating Weight (lbs)			Varies based	on system ref	rigerant charg	e and operati	ng conditions		
MCA @ 460/3/60 (amps) ¹	5	16	16	16	21	21	31	36	46
MOP @ 460/3/60 (amps) ²	15	20	20	20	25	25	35	40	50

¹MCA is Minimum Circuit Amps, used for minimum wire size requirement.

²MOP is Maximum Overcurrent Protection, used for sizing main power protection device.

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