



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.

TSE SERIES VERSION 2.000			
NO ACTIVE MESSAGES			
SETPOINT	50.0	CIRCUIT 1	CIRCUIT 2
CONDENSER FLUID IN	85.0 °C	COMP(S) ON	COMP(S) ON
EVAPORATOR FLUID IN	60.0 °C	3	3
TO PROCESS FLUID	50.0 °C	COND OUT	COND OUT
PROCESS DELTA T	10.0 °C	95.0	95.0
STAGE DEMAND	100.0 %	EVAP OUT	EVAP OUT
		50.0 °C	50.0

Navigation icons: BACK, HOME, FULL, DETAIL, ALARMS

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

3 year PLC controller parts

1 year entire unit parts

1 year labor

One-day factory authorized start-up supervision

# Accuchiller TSE Central Chiller

## 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.

### 10-inch HMI

Replaces the standard 7-inch screen with a 10-inch, high resolution, color screen for larger presentation of the same menus and functions as the standard screen.

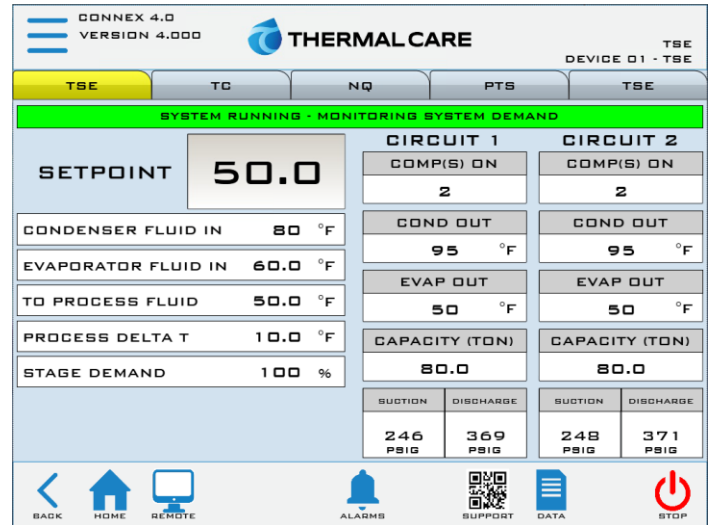
### 12 inch HMI

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 or Lon Works Communications Port

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

# Accuchiller TSE Central Chiller

## Water-Cooled Condenser Single-Circuit Chillers

	TSEW 10S	TSEW 15S	TSEW 20S	TSEW 25S	TSEW 30S	TSEW 40S	TSEW 50S	TSEW 60S	TSEW 80S	TSEW 100S	TSEW 120S
Cooling Capacity (tons) <sup>1</sup>	11	16	22	27	32	42	53	69	86	110	128
Set Point Range (°F)	20 to 80	20 to 80	20 to 80	20 to 80	20 to 80	20 to 80	20 to 80	20 to 80	20 to 80	20 to 80	20 to 80
Compressors (qty)	2	2	2	2	2	2	2	2	2	3	3
Process In/Out (in) – Standard	1½	1½	2	2	2½	2½	3	4	4	4	4
w/high flow evaporator option	2	2½	2½	3	3	4	4	4	n/a	6	6
Condenser Water In & Out (in)	1½	2	2	2½	2½	3	3	4	4	4	4
<b>Chiller</b>											
Length (in)	68	72	75	75	77	102	92	102	102	123	125
Width (in)	30	30	30	30	30	30	36	36	36	30	30
Height (in)	68	68	68	68	68	68	68	68	68	70	71
Ship Weight (lbs)	990	1,072	1,149	1,189	1,339	1,763	1,802	2,294	2,467	3,230	3,250
Operating Weight (lbs)	1,005	1,092	1,179	1,222	1,376	1,823	1,872	2,380	2,557	3,330	3,350
MCA @ 460/3/60 (amps) <sup>2</sup>	23	34	41	53	61	70	86	124	165	205	238
MOP @ 460/3/60 (amps) <sup>3</sup>	30	45	50	70	80	100	110	175	225	250	300
<b>Chiller with Standard Flow Reservoir Option</b>											
Reservoir Capacity (gal)	275	275	275	275	275	275	275	450	450	The TSEW100S and TSEW120S are not available with an integral reservoir	
Process / Chiller Pump (hp)	5/1.5	5/1.5	5/1.5	5/1.5	7.5/2	10/2	10/3	10/3	15/3		
Process Connection Size (in)	1½	1½	2	2	2½	2½	3	3	4		
Condenser Water In & Out (in)	1½	2	2	2½	2½	3	3	4	4		
Length (in)	99	99	99	99	99	99	102	114	114		
Width (in)	68	72	75	75	78	98	102	101	101		
Height (in)	73	73	73	73	73	73	73	73	73		
Ship Weight (lbs)	2,337	2,418	2,496	2,537	2,769	3,238	3,374	4,147	4,370		
Operating Weight (lbs)	4,631	4,712	4,790	4,831	5,063	5,532	5,668	7,901	8,124		
MCA @ 460/3/60 (amps) <sup>2</sup>	33	43	49	60	72	83	99	132	178		
MOP @ 460/3/60 (amps) <sup>3</sup>	40	50	60	80	100	110	125	175	250		
<b>Chiller with High Flow Reservoir Option</b>											
Reservoir Capacity (gal)	400	400	400	400	400	400	400	650	650	The TSEW100S and TSEW120S are not available with an integral reservoir	
Process/Chiller Pump (hp)	5/1.5	7.5/1.5	10/1.5	10/1.5	10/2	15/2	15/3	20/3	25/3		
Process Connection Size (in)	2	2½	2½	3	3	4	4	4	6		
Condenser Water In & Out (in)	1½	2	2	2½	2½	3	3	4	4		
Length (in)	99	99	99	99	99	99	102	114	114		
Width (in)	68	72	75	75	78	98	102	101	101		
Height (in)	73	73	73	73	73	73	73	73	73		
Ship Weight (lbs)	2,850	2,950	3,100	3,150	3,450	4,000	4,250	4,950	5,750		
Operating Weight (lbs)	6,200	6,300	6,450	6,500	6,800	7,350	7,600	10,400	11,200		
MCA @ 460/3/60 (amps) <sup>2</sup>	33	48	58	70	79	95	112	155	204		
MOP @ 460/3/60 (amps) <sup>3</sup>	40	60	70	90	100	125	125	200	250		

<sup>1</sup>Cooling capacity when cooling water with 50°F set point, 60°F return, 85°F condenser water, R410A refrigerant.

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

<sup>3</sup>MOP is Maximum Overcurrent Protection, used for sizing main power protection device.

# Accuchiller TSE Central Chiller

## Water-Cooled Condenser Dual-Circuit Chillers

	TSEW 20D	TSEW 30D	TSEW 40D	TSEW 50D	TSEW 60D	TSEW 80D	TSEW 100D	TSEW 120D	TSEW 160D	TSEW 200D	TSEW 240D
Cooling Capacity (tons) <sup>1</sup>	22	32	44	54	65	84	106	137	171	220	256
Set Point Range (°F)	20 to 80	20 to 80	20 to 80	20 to 80	20 to 80	20 to 80	20 to 80	20 to 80	20 to 80	20 to 80	20 to 80
Compressors Circuit 1 (qty)	2	2	2	2	2	2	2	2	2	3	3
Compressors Circuit 2 (qty)	2	2	2	2	2	2	2	2	2	3	3
Process In/Out (in) – Standard	2	2½	2½	3	3	4	4	4	6	6	6
w/high flow evaporator option	2½	3	4	4	4	6	6	6	n/a	8	8
Condenser Water In/Out (in)	2	2½	3	3	4	4	4	6	6	6	6
<b>Chiller</b>											
Length (in)	76	77	80	81	87	117	113	119	120	139	141
Width (in)	48	49	50	50	52	51	52	54	54	60	60
Height (in)	68	68	68	68	68	68	68	68	68	70	71
Ship Weight (lbs)	1,925	2,093	2,255	2,343	2,657	3,516	3,595	4,361	4,736	5,760	5,780
Operating Weight (lbs)	1,955	2,133	2,315	2,409	2,731	3,636	3,735	4,533	4,916	5,960	5,980
MCA @ 460/3/60 (amps) <sup>2</sup>	42	64	77	99	116	132	162	233	311	391	457
MOP @ 460/3/60 (amps) <sup>3</sup>	50	70	90	110	125	150	175	250	350	450	500
<b>Chiller with Standard Flow Reservoir Option</b>											
Reservoir Capacity (gal)	275	275	275	275	450	450	700	700	1,000	The TSEW200D and TSEW240D are not available with an integral reservoir	
Process/Chiller Pump (hp)	5/1.5	7.5/2	10/2	10/3	10/3	15/3	15/5	20/7.5	25/10		
Process Connection Size (in)	2	2½	2½	3	3	4	4	4	6		
Condenser Water In/Out (in)	2	2½	3	3	4	4	4	6	6		
Length (in)	123	123	123	123	135	135	135	135	148		
Width (in)	74	74	77	78	81	98	102	111 <sup>4</sup>	111 <sup>4</sup>		
Height (in)	73	73	73	75	75	79	79	79	90		
Ship Weight (lbs)	3,486	3,748	3,948	4,068	4,546	5,390	6,067	7,160	8,168		
Operating Weight (lbs)	5,780	6,042	6,229	6,362	8,300	9,144	11,936	12,999	16,510		
MCA @ 460/3/60 (amps) <sup>2</sup>	53	78	95	118	134	158	190	267	359		
MOP @ 460/3/60 (amps) <sup>3</sup>	60	90	110	125	150	175	225	300	400		
<b>Chiller with High Flow Reservoir Option</b>											
Reservoir Capacity (gal)	400	400	400	400	650	650	1,000	1,000	1,000	The TSEW200D and TSEW240D are not available with an integral reservoir	
Process/Chiller Pump (hp)	10/1.5	10/2	15/2	15/3	20/3	25/3	30/5	40/7.5	40/10		
Process Connection Size (in)	2½	3	4	4	4	6	6	6	6		
Condenser Water In/Out (in)	2	2½	3	3	4	4	4	6	6		
Length (in)	123	123	123	123	135	135	135	135	148		
Width (in)	74	74	77	78	81	98	102	111 <sup>4</sup>	111 <sup>4</sup>		
Height (in)	73	73	73	75	75	79	79	79	90		
Ship Weight (lbs)	5,950	6,400	6,750	6,950	8,950	10,300	13,050	14,150	18,500		
Operating Weight (lbs)	7,200	7,650	8,000	8,200	10,900	12,250	16,250	17,250	19,500		
MCA @ 460/3/60 (amps) <sup>2</sup>	61	81	102	125	147	172	210	292	377		
MOP @ 460/3/60 (amps) <sup>3</sup>	70	90	110	125	150	200	225	300	450		

<sup>1</sup>Cooling capacity when cooling water with 50°F set point, 60°F return, 85°F condenser water, R410A refrigerant.

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

<sup>3</sup>MOP is Maximum Overcurrent Protection, used for sizing main power protection device.

<sup>4</sup>To keep shipping dimensions within the 102" width of a standard flatbed, the condenser inlet manifold ships separately.

# Accuchiller TSE Central Chiller

## Remote Air-Cooled Condenser Single-Circuit Chillers

	TSER 10S	TSER 15S	TSER 20S	TSER 25S	TSER 30S	TSER 40S	TSER 50S	TSER 60S	TSER 80S	TSER 100S	TSER 120S
Cooling Capacity (tons) <sup>1</sup>	10	15	20	25	30	39	49	64	79	101	119
Set Point Range (°F)	20 to 80	20 to 80	20 to 80	20 to 80	20 to 80	20 to 80	20 to 80	20 to 80	20 to 80	20 to 80	20 to 80
Compressors (qty)	2	2	2	2	2	2	2	2	2	3	3
Process In/Out (in) – Standard	1½	1½	2	2	2½	2½	3	4	4	4	4
w/high flow evaporator option	2	2½	2½	3	3	4	4	4	n/a	6	6
Refrigerant Discharge Line (in)	¾	1⅛	1⅛	1¾	1¾	1¾	1⅝	1⅝	2⅛	2⅛	2⅛
Refrigerant Liquid Line (in)	⅝	⅞	⅞	1⅛	1⅛	1⅛	1⅛	1⅜	1⅝	2⅛	2⅛
<b>Chiller</b>											
Length (in)	64	65	68	68	74	102	99	102	102	123	125
Width (in)	30	30	30	30	30	30	36	36	36	30	30
Height (in)	68	68	68	68	68	68	68	68	68	64	64
Ship Weight (lbs)	897	1,024	1,060	1,076	1,202	1,554	1,588	1,995	2,161	2,800	2,820
Operating Weight (lbs)	912	1,044	1,090	1,109	1,239	1,614	1,658	2,081	2,251	2,900	2,920
MCA @ 460/3/60 (amps) <sup>2</sup>	23	34	41	53	61	70	86	124	165	205	238
MOP @ 460/3/60 (amps) <sup>3</sup>	30	45	50	70	80	100	110	175	225	250	300
<b>Chiller with Standard Flow Reservoir Option</b>											
Reservoir Capacity (gal)	275	275	275	275	275	275	275	450	450	The TSER100S and TSER120S are not available with an integral reservoir	
Process/Chiller Pump (hp)	5/1.5	5/1.5	5/1.5	5/1.5	7.5/2	10/2	10/3	10/3	15/3		
Process Connection Size (in)	1½	1½	2	2	2½	2½	3	3	4		
Refrigerant Discharge Line (in)	¾	1⅛	1⅛	1¾	1¾	1⅝	1⅝	1⅝	2⅛		
Refrigerant Liquid Line (in)	⅝	⅞	⅞	1⅛	1⅛	1⅛	1⅛	1⅜	1⅝		
Length (in)	99	99	99	99	99	99	102	114	114		
Width (in)	66	66	67	67	71	98	102	101	101		
Height (in)	73	73	73	73	73	73	73	73	73		
Ship Weight (lbs)	2,267	2,370	2,407	2,423	2,628	3,030	3,158	3,846	4,063		
Operating Weight (lbs)	4,561	4,664	4,701	4,717	4,922	5,324	5,452	7,600	7,817		
MCA @ 460/3/60 (amps) <sup>2</sup>	33	43	49	60	72	83	99	132	178		
MOP @ 460/3/60 (amps) <sup>3</sup>	40	50	60	80	100	110	125	175	250		
<b>Chiller with High Flow Reservoir Option</b>											
Reservoir Capacity (gal)	400	400	400	400	400	400	400	650	650	The TSER100S and TSER120S are not available with an integral reservoir	
Process/Chiller Pump (hp)	5/1.5	7.5/1.5	10/1.5	10/1.5	10/2	15/2	15/3	20/3	25/3		
Process Connection Size (in)	2	2½	2½	3	3	4	4	4	6		
Refrigerant Discharge Line (in)	¾	1⅛	1⅛	1¾	1¾	1⅝	1⅝	1⅝	2⅛		
Refrigerant Liquid Line (in)	⅝	⅞	⅞	1⅛	1⅛	1⅛	1⅛	1⅜	1⅝		
Length (in)	99	99	99	99	99	99	102	114	114		
Width (in)	66	66	67	67	71	98	102	101	101		
Height (in)	73	73	73	73	73	73	73	73	73		
Ship Weight (lbs)	2,800	2,950	2,950	3,000	3,300	3,750	4,000	4,600	5,350		
Operating Weight (lbs)	6,150	6,300	6,300	6,350	6,650	7,100	7,350	10,050	10,800		
MCA @ 460/3/60 (amps) <sup>2</sup>	33	48	58	70	79	95	112	155	204		
MOP @ 460/3/60 (amps) <sup>3</sup>	40	60	70	90	100	125	125	200	250		

<sup>1</sup>Cooling capacity when cooling water with 50°F set point, 60°F return, 95°F condenser air, R410A refrigerant.

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

<sup>3</sup>MOP is Maximum Overcurrent Protection, used for sizing main power protection device.

# Accuchiller TSE Central Chiller

## Remote Air-Cooled Condenser Dual-Circuit Chillers

	TSER 20D	TSER 30D	TSER 40D	TSER 50D	TSER 60D	TSER 80D	TSER 100D	TSER 120D	TSER 160D	TSER 200D	TSER 240D
Cooling Capacity (tons) <sup>1</sup>	20	30	41	50	60	78	98	127	158	201	237
Set Point Range (°F)	20 to 80	20 to 80	20 to 80	20 to 80	20 to 80	20 to 80	20 to 80	20 to 80	20 to 80	20 to 80	20 to 80
Compressors Circuit 1 (qty)	2	2	2	2	2	2	2	2	2	3	3
Compressors Circuit 2 (qty)	2	2	2	2	2	2	2	2	2	3	3
Process In/Out (in) – Standard	2	2½	2½	3	3	4	4	4	6	6	6
w/high flow evaporator option	2½	3	4	4	4	6	6	6	n/a	8	8
Refrigerant Discharge Line/Circuit (in)	¾	1⅛	1⅛	1¾	1¾	1¾	1⅝	1⅝	2⅞	2⅞	2⅞
Refrigerant Liquid Line/Circuit (in)	⅝	⅞	⅞	1⅞	1⅞	1⅞	1⅞	1¾	1⅝	2⅞	2⅞
<b>Chiller</b>											
Length (in)	76	77	80	81	87	117	113	116	120	139	141
Width (in)	48	48	48	48	48	49	49	49	51	60	60
Height (in)	68	68	68	68	68	68	68	68	68	65	65
Ship Weight (lbs)	1,722	1,760	1,834	2,091	2,335	3,061	3,129	3,820	4,069	5,350	5,370
Operating Weight (lbs)	1,752	1,800	1,894	2,157	2,409	3,181	3,269	3,992	4,249	5,550	5,570
MCA @ 460/3/60 (amps) <sup>2</sup>	42	64	77	99	116	132	162	233	311	391	457
MOP @ 460/3/60 (amps) <sup>3</sup>	50	70	90	110	125	150	175	250	350	450	500
<b>Chiller with Standard Flow Reservoir Option</b>											
Reservoir Capacity (gal)	275	275	275	275	450	450	700	700	1,000	The TSER200D and TSER240D are not available with an integral reservoir	
Process/Chiller Pump (hp)	5/1.5	7.5/2	10/2	10/3	10/3	15/3	15/5	20/7.5	25/10		
Process Connection Size (in)	2	2½	2½	3	3	4	4	4	6		
Refrigerant Discharge Line/Circuit (in)	¾	1⅛	1⅛	1¾	1¾	1⅝	1⅝	1⅝	2⅞		
Refrigerant Liquid Line/Circuit (in)	⅝	⅞	⅞	1⅞	1⅞	1⅞	1⅞	1¾	1⅝		
Length (in)	123	123	123	123	135	135	135	135	148		
Width (in)	66	66	67	68	71	99	99	98	101		
Height (in)	72	72	72	75	75	75	78	79	90		
Ship Weight (lbs)	3,335	3,634	3,624	3,814	4,224	5,040	5,628	6,478	7,499		
Operating Weight (lbs)	5,629	5,928	5,918	6,109	7,978	8,794	11,467	12,317	15,841		
MCA @ 460/3/60 (amps) <sup>2</sup>	53	78	95	118	134	158	190	267	359		
MOP @ 460/3/60 (amps) <sup>3</sup>	60	90	110	125	150	175	225	300	400		
<b>Chiller with High Flow Reservoir Option</b>											
Reservoir Capacity (gal)	400	400	400	400	650	650	1,000	1,000	1,000	The TSER200D and TSER240D are not available with an integral reservoir	
Process/Chiller Pump (hp)	10/1.5	10/2	15/2	15/3	20/3	25/3	30/5	40/7.5	40/10		
Process Connection Size (in)	2½	3	4	4	4	6	6	6	6		
Refrigerant Discharge Line/Circuit (in)	¾	1⅛	1⅛	1¾	1¾	1⅝	1⅝	1⅝	2⅞		
Refrigerant Liquid Line/Circuit (in)	⅝	⅞	⅞	1⅞	1⅞	1⅞	1⅞	1¾	1⅝		
Length (in)	123	123	123	123	135	135	135	135	148		
Width (in)	66	66	67	68	71	99	99	98	101		
Height (in)	72	72	72	75	75	75	78	79	90		
Ship Weight (lbs)	3,850	4,200	4,400	4,550	5,050	6,250	7,300	8,100	10,300		
Operating Weight (lbs)	7,200	7,550	7,750	7,900	10,500	11,700	15,650	16,450	18,650		
MCA @ 460/3/60 (amps) <sup>2</sup>	61	81	102	125	147	172	210	292	377		
MOP @ 460/3/60 (amps) <sup>3</sup>	70	90	110	125	150	200	225	300	450		

<sup>1</sup>Cooling capacity when cooling water with 50°F set point, 60°F return, 95°F condenser air, R410A refrigerant.

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

<sup>3</sup>MOP is Maximum Overcurrent Protection, used for sizing main power protection device.

# Accuchiller TSE Central Chiller

## Remote Condensers (single-circuit)

Model	KCM014	KCL023	KCL030	KCL037	KCL045	KCL056	KCL068	KCL095	KCL110	S-GVW 090.1/4- N(2).M	S-GVW 090.1/5- N(2).M
Chiller Used With	TSER10S	TSER15S	TSER20S	TSER25S	TSER30S	TSER40S	TSER50S	TSER60S	TSER80S	TSER100S	TSER120S
Number of Fans	2	2	2	2	3	3	4	5	6	4	5
Refrigerant Inlet (in)	1 $\frac{3}{8}$	2 $\frac{1}{8}$	2 $\frac{1}{8}$	2 $\frac{1}{8}$	2 $\frac{5}{8}$	2 $\frac{5}{8}$	2 $\frac{5}{8}$	3 $\frac{1}{8}$	3 $\frac{1}{8}$	3 $\frac{1}{8}$	3 $\frac{1}{8}$
Refrigerant Outlet (in)	1 $\frac{1}{8}$	1 $\frac{3}{8}$	1 $\frac{5}{8}$	1 $\frac{5}{8}$	1 $\frac{5}{8}$	2 $\frac{1}{8}$	2 $\frac{1}{8}$	2 $\frac{5}{8}$	2 $\frac{5}{8}$	3 $\frac{1}{8}$	3 $\frac{1}{8}$
Length (in)	83	113	113	113	168	168	223	278	333	223	271
Width (in)	43	45	45	45	45	45	45	45	45	51	51
Height (in)	48	54	54	54	54	54	54	54	54	69	69
Shipping Weight (lbs)	415	680	720	1,050	1,075	1,450	1,475	1,950	2,300	3,000	3,625
Operating Weight (lbs)	Varies based on system refrigerant charge and operating conditions										
MCA @ 460/3/60 (amps) <sup>1</sup>	3	7	7	7	10	10	16	16	21	24	30
MOP @ 460/3/60 (amps) <sup>2</sup>	15	15	15	15	15	15	20	20	25	25	35

<sup>1</sup>MCA is Minimum Circuit Amps, used for minimum wire size requirement.

<sup>2</sup>MOP is Maximum Overcurrent Protection, used for sizing main power protection device.

## Remote Condensers (dual-circuit)

Model	KCM034	KCL047	KCL060	KCL074	KCL090	KCL112	KCL137	KCL190	KCL224	S-GVD 090.1D/2 x4-M2.M	S-GVD 090.1D/2 x5-M2.M
Chiller Used With	TSER20D	TSER30D	TSER40D	TSER50D	TSER60D	TSER80D	TSER100D	TSER120D	TSER160D	TSER200D	TSER240D
Number of Fans	4	4	4	4	6	6	8	10	12	8	10
Refrigerant Inlet (in)	1 $\frac{5}{8}$	2 $\frac{1}{8}$	2 $\frac{1}{8}$	2 $\frac{1}{8}$	2 $\frac{1}{8}$	2 $\frac{5}{8}$	2 $\frac{5}{8}$	3 $\frac{1}{8}$	3 $\frac{1}{8}$	3 $\frac{1}{8}$ x 2	3 $\frac{5}{8}$ x 2
Refrigerant Outlet (in)	1 $\frac{1}{8}$	1 $\frac{3}{8}$	1 $\frac{5}{8}$	1 $\frac{5}{8}$	1 $\frac{5}{8}$	2 $\frac{1}{8}$	2 $\frac{1}{8}$	2 $\frac{5}{8}$	2 $\frac{5}{8}$	3 $\frac{1}{8}$ x 2	3 $\frac{5}{8}$ x 2
Length (in)	83	113	113	113	168	168	223	278	333	225	275
Width (in)	83	87	87	87	87	87	87	87	87	95	95
Height (in)	48	54	54	54	54	54	54	54	54	112	112
Shipping Weight (lbs)	830	1,175	1,525	1,525	2,000	2,275	2,800	3,700	4,400	7,800	10,025
Operating Weight (lbs)	Varies based on system refrigerant charge and operating conditions										
MCA @ 460/3/60 (amps) <sup>1</sup>	5	16	16	16	21	21	31	36	46	31	38
MOP @ 460/3/60 (amps) <sup>2</sup>	15	20	20	20	25	25	35	40	50	35	40

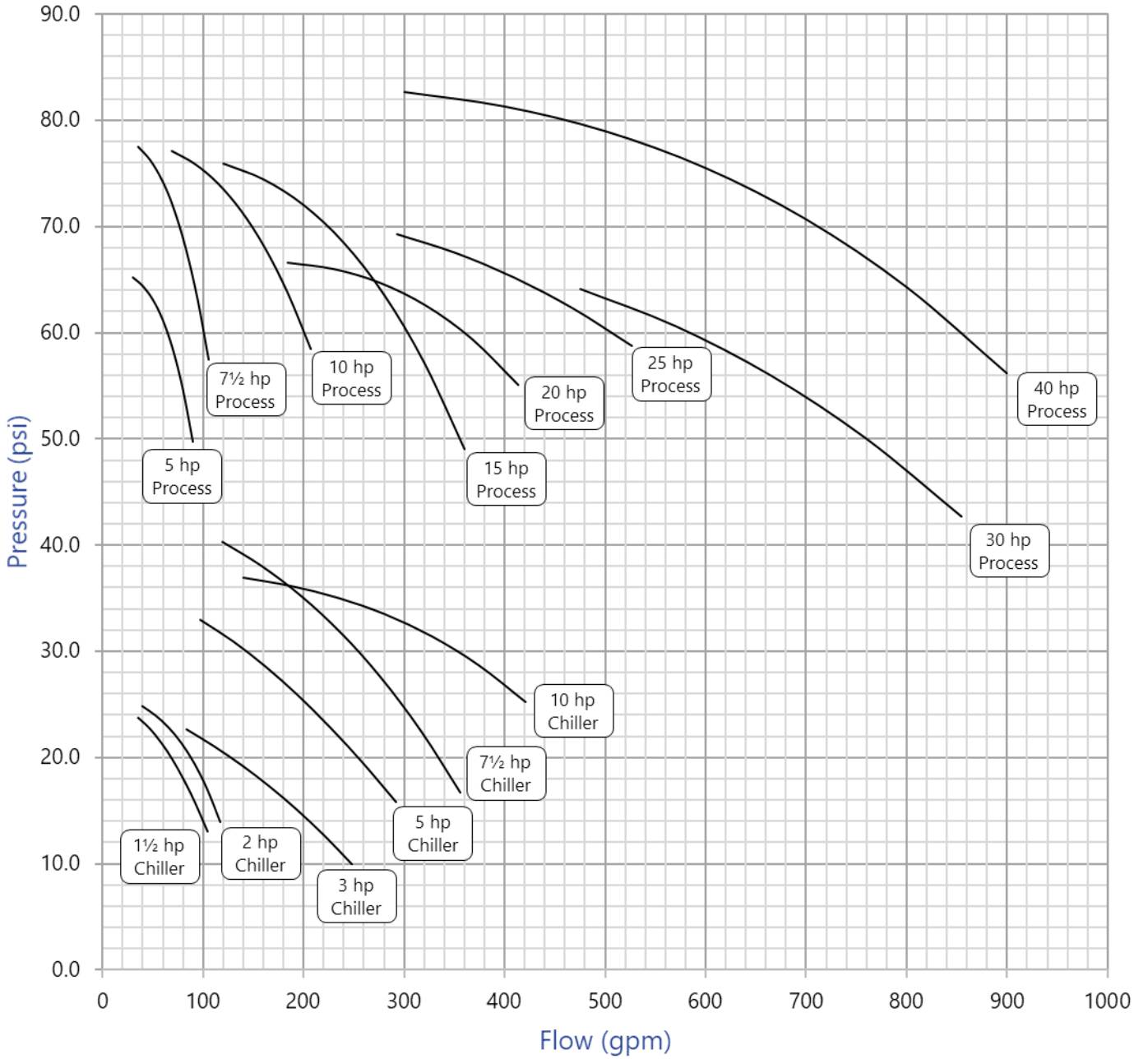
<sup>1</sup>MCA is Minimum Circuit Amps, used for minimum wire size requirement.

<sup>2</sup>MOP is Maximum Overcurrent Protection, used for sizing main power protection device.

# Accuchiller TSE Central Chiller

## Reservoir Option Pumps

(Water @ 50°F, 60 Hz)



**THERMALCARE**

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TSE Specifications 04