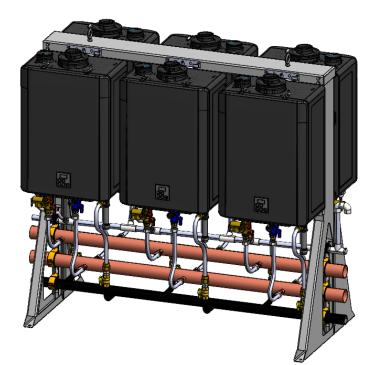


Tankless Rack System (TRS) with SENSEI[™] CX Tankless Water Heaters

SPECIFICATIONS



Free-Standing Rack with Six Rinnai SENSEI[™] CX Condensing Tankless Water Heaters Rinnai

SENSEI[™] CX Condensing Commercial Tankless Water Heater

Models:

- CX199i
- CX 160i
- CXP199i
- CXP160i

For complete details on commercial water heating solutions and maintenance services, call 866-383-0707 or email commercialservices@rinnai.us.

COMMERCIAL

1. Configurations

Tankless Rack System (TRS) configurations and part numbers are listed in the following tables.

IMPORTANT: SENSEI[™] CX tankless water heaters are available in one SKU which is capable of using Natural Gas or Propane, and for being installed indoor or outdoor *.

When power is connected for the first time, you must select these settings using the controller on the front panel. Refer to the "Initial Settings" section in the "Tankless Water Heater Installation and Operation Manual" for complete instructions.

* Indoor tankless water heaters (applicable models) can convert to an outdoor installation with the Rinnai outdoor vent cap (purchased separately). Contact Rinnai for more information.

WALL-HANGING RACKS

CX Series				
Part No.*	Rack Type	Configuration	Illustration	
TRW02CXiN	2-unit interior wall-hanging rack, NG			
TRW03CXiN	3-unit interior wall-hanging rack, NG		an <u>tantan</u> t	
TRX02CXiN	2-unit interior compact wall-mount rack, NG			
CXP Serie	es Featuring Smart-Circ™ R	ecirculation		
Part No.*	Rack Type	Configuration	Illustration	
TRW02CXPiN	2-unit interior wall-hanging rack, NG			
TRW03CXPiN	3-unit interior wall-hanging rack, NG		Andran Sant	

- * Part No. Legend:
 - TR = Tankless Rack
 - W = Wall Hanging
 - S = Stand Alone
 - X = Compact
 - IL = Inline
 - 2/3/4/5/6 = Number of Water Heaters
 - CX = SENSEI[™] CX Tankless Water Heater
 - i/e = Interior/Exterior
- NG/LP = Natural Gas/Liquid Propane

- TRW: Wall-Hanging Systems
- TRX: Compact Wall-Mount

FREE-STANDING RACKS

Part No.*	Rack Type	Configuration	Illustration
TRS02ILCXIN	2-unit INLINE interior free-standing rack, NG		
TRS03ILCXIN	3-unit INLINE interior free-standing rack, NG		
TRS03CXiN	3-unit interior free-standing rack, NG		
TRS04CXiN	4-unit interior free-standing rack, NG		
TRS05CXiN	5-unit interior free-standing rack, NG		
TRS06CXiN	6-unit interior free-standing rack, NG		

* Part No. Legend:

- TR = Tankless Rack
 W = Wall Hanging
 S = Stand Alone

- X = Compact
- -IL = Inline
- 2/3/4/5/6 = Number of Water Heaters
 CX = SENSEI[™] CX Tankless Water Heater
- i/e = Interior/ExteriorNG/LP = Natural Gas/Liquid Propane

- TRS: Free-Standing Systems
 TRW: Wall-Hanging Systems
 TRX: Compact Wall-Mount

2. Specifications

WALL-HANGING RACKS

Available Configurations

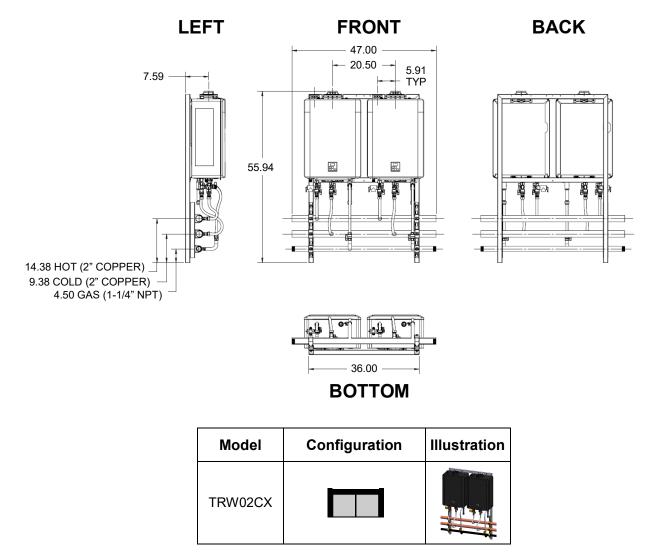
2-Units

• 3-Units

CX and CXP Series



2-Unit Wall-Hanging Frame



CX and CXP Series 2-Unit Wall-Hanging Frame (Continued)

Model	TRW02CXi	TRW02CXPi	
Water Heater Model	CX199i (NG/LP)		
Crate Dimensions (HxLxD) - in	66 x 70 x 35		
Weight - Fully Assembled - Ibs	153		
Weight - Shipping (total) - Ibs	363		
Rack Frame - Specifications			
Frame Material	Alumin	ium	
Frame Finish	Powder	Coat	
Color	Gray	у	
Water & Gas Connections			
Hot Water Trunk Line Diameter	2"		
Cold Water Trunk Line Diameter	2"		
Hot Water Trunk Line Material	Rigid Co	opper	
Cold Water Trunk Line Material	Rigid Co	opper	
Water Trunk Connection Type	2" Pi	be	
Gas Trunk Line Diameter	1-1/4	t"	
Gas Trunk Connection Type	1-1/4" N	INPT	
Gas Trunk Line Material	Sch 40 S	Steel	
Gas Branch Line Material	PVC Over	CSST	
Electric Requirements			
Voltage	AC 120 Volt	s - 60 Hz	
Maximum Current (Amperes)	8		
BTU and Flow Rates for CX199i (NG/LI	P)		
Number of Tankless Water Heaters	2		
Flow rate @ 70°F rise (gpm)	10.8		
Flow rate @ 100°F rise (gpm)	7.6		
Minimum input rate (Btuh)	15,000		
Maximum input rate (Btuh)	398,000		

TRW02CX / TRW02CXP



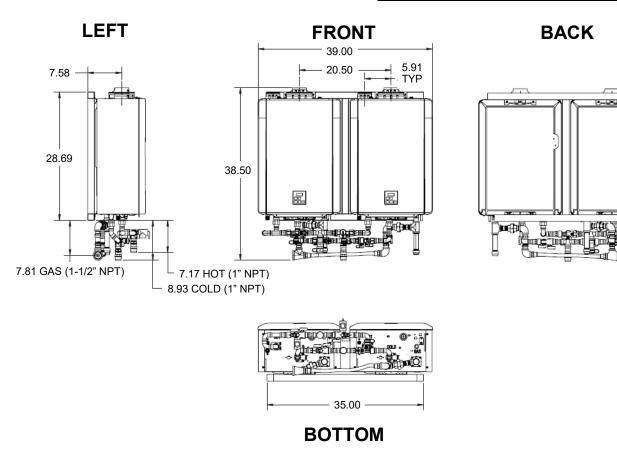
Available Configurations

2-Units

CX Series

2-Unit Compact Wall-Mount Frame

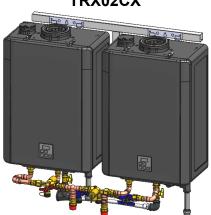
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Model	Configuration	Illustration
TRX02CX		

CX Series 2-Unit Compact Wall-Mount Frame (Continued)

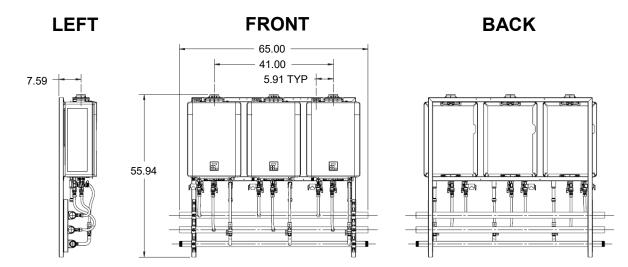
Crate Dimensions (HxLXD) - in 46 x 42 x 48 Weight - Fully Assembled - Ibs 160 Weight - Shipping (3 components) - Ibs 540 Rack Frame - Specifications 540 Frame Material Aluminum Frame Finish Powder Coat Color Gray Water & Gas Connections 1 in. Hot Water Trunk Line Diameter 1 in. Cold Water Trunk Line Diameter 1 in. Hot Water Trunk Line Material Rigid Copper Cold Water Trunk Line Material Rigid Copper Cold Water Trunk Line Material Rigid Copper Water Connection Type 1 in. MNPT Gas Trunk Connection Type 1-1/2 in. Gas Trunk Connection Type 1-1/2 in. Gas Trunk Line Material Schedule 40 Steel Gas Trunk Line Material PVC Over CSST Electric Requirements 8 Voltage AC 120 Volts - 60 Hz Maximum Current (Amperes) 8 BTU and Flow Rates for CX199i (NG/LP) 8 Number of Tankless Water Heaters 2 Flow rate @ 100°F rise (gpm) 7.6 Minimum input rate	Model	TRX02CX	
Weight - Fully Assembled - Ibs 160 Weight - Shipping (3 components) - Ibs 540 Rack Frame - Specifications 540 Frame Material Aluminum Frame Material Powder Coat Color Gray Water & Gas Connections 1 in. Hot Water Trunk Line Diameter 1 in. Cold Water Trunk Line Material Rigid Copper Gas Trunk Line Diameter 1-1/2 in. Gas Trunk Line Material Schedule 40 Steel Gas Branch Line Material PVC Over CSST Electric Requirements Voltage Voltage AC 120 Volts - 60 Hz Maximum Current (Amperes) 8 BTU and Flow Rates for CX199i (NG/LP) Number of Tankless Water Heaters Number of Tankless Water	Water Heater Model	CX199i (NG/LP)	
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Frame Material Aluminum Frame Finish Powder Coat Color Gray Water & Gas Connections In. Hot Water Trunk Line Diameter 1 in. Cold Water Trunk Line Diameter 1 in. Hot Water Trunk Line Material Rigid Copper Cold Water Trunk Line Material Rigid Copper Gas Trunk Connection Type 1 -1/2 in. Gas Trunk Connection Type 1-1/2 in. MNPT Gas Brunk Line Material Schedule 40 Steel Gas Branch Line Material PVC Over CSST Electric Requirements Voltage Voltage AC 120 Volts - 60 Hz Maximum Current (Amperes) 8 BTU and Flow Rates for CX199i (NG/LP) 8 Number of Tankless Water Heaters 2 Flow rate @ 70°F rise (gpm) 10.8 Flow rate @ 70°F rise (gpm) 10.8 Flow rate @ 100°F rise (gpm) 398,000 Accessories Cascade Controls - REU-EZC-3	Weight - Shipping (3 components) - Ibs	540	
Frame FinishPowder CoatColorGrayWater & Gas ConnectionsHot Water Trunk Line Diameter1 in.Cold Water Trunk Line Diameter1 in.Hot Water Trunk Line Diameter1 in.Hot Water Trunk Line MaterialRigid CopperCold Water Trunk Line MaterialRigid CopperCold Water Trunk Line MaterialRigid CopperCold Water Trunk Line MaterialRigid CopperGas Trunk Connection Type1-1/2 in.Gas Trunk Line MaterialSchedule 40 SteelGas Trunk Line MaterialPVC Over CSSTElectric Requirements8VoltageAC 120 Volts - 60 HzMaximum Current (Amperes)8BTU and Flow Rates for CX199i (NG/LP)10.8Number of Tankless Water Heaters2Flow rate @ 70°F rise (gpm)7.6Minimum input rate (Btuh)15,000Maximum input rate (Btuh)398,000Accessories2Cascade Controls - REU-EZC-3Pre-installedOffset Wall BracketIncluded	Rack Frame - Specifications		
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Hot Water Trunk Line Diameter1 in.Cold Water Trunk Line Diameter1 in.Hot Water Trunk Line MaterialRigid CopperCold Water Trunk Line MaterialRigid CopperWater Trunk Connection Type1 in. MNPTGas Trunk Connection Type1-1/2 in.Gas Trunk Connection Type1-1/2 in.Gas Trunk Line MaterialSchedule 40 SteelGas Trunk Line MaterialPVC Over CSSTElectric Requirements8VoltageAC 120 Volts - 60 HzMaximum Current (Amperes)8BTU and Flow Rates for CX199i (NG/LP)10.8Number of Tankless Water Heaters2Flow rate @ 70°F rise (gpm)10.8Flow rate @ 100°F rise (gpm)7.6Minimum input rate (Btuh)398,000Accessories2Cascade Controls - REU-EZC-3Pre-installedOffset Wall BracketIncluded	Color	Gray	
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Hot Water Trunk Line MaterialRigid CopperCold Water Trunk Line MaterialRigid CopperWater Trunk Connection Type1 in. MNPTGas Trunk Line Diameter1-1/2 in.Gas Trunk Connection Type1-1/2 in. MNPTGas Trunk Line MaterialSchedule 40 SteelGas Branch Line MaterialPVC Over CSSTElectric Requirements8VoltageAC 120 Volts - 60 HzMaximum Current (Amperes)8BTU and Flow Rates for CX199i (NG/LP)10.8Number of Tankless Water Heaters2Flow rate @ 100°F rise (gpm)10.8Flow rate @ 100°F rise (gpm)398,000Accessories398,000Accessories2Cascade Controls - REU-EZC-3Pre-installedOffset Wall BracketIncluded	Hot Water Trunk Line Diameter	1 in.	
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Gas Trunk Line Diameter1-1/2 in.Gas Trunk Connection Type1-1/2 in. MNPTGas Trunk Line MaterialSchedule 40 SteelGas Branch Line MaterialPVC Over CSSTElectric RequirementsPVC Over CSSTVoltageAC 120 Volts - 60 HzMaximum Current (Amperes)8BTU and Flow Rates for CX199i (NG/LP)10.8Number of Tankless Water Heaters2Flow rate @ 70°F rise (gpm)10.8Flow rate @ 100°F rise (gpm)7.6Minimum input rate (Btuh)15,000Maximum input rate (Btuh)398,000AccessoriesCascade Controls - REU-EZC-3Offset Wall BracketIncluded	Cold Water Trunk Line Material	Rigid Copper	
Gas Trunk Connection Type1-1/2 in. MNPTGas Trunk Line MaterialSchedule 40 SteelGas Branch Line MaterialPVC Over CSSTElectric RequirementsAC 120 Volts - 60 HzVoltageAC 120 Volts - 60 HzMaximum Current (Amperes)8BTU and Flow Rates for CX199i (NG/LP)2Number of Tankless Water Heaters2Flow rate @ 70°F rise (gpm)10.8Flow rate @ 100°F rise (gpm)7.6Minimum input rate (Btuh)15,000Maximum input rate (Btuh)398,000AccessoriesCascade Controls - REU-EZC-3Offset Wall BracketIncluded	Water Trunk Connection Type	1 in. MNPT	
Gas Trunk Line MaterialSchedule 40 SteelGas Branch Line MaterialPVC Over CSSTElectric RequirementsPVC Over CSSTVoltageAC 120 Volts - 60 HzMaximum Current (Amperes)8BTU and Flow Rates for CX199i (NG/LP)Number of Tankless Water HeatersNumber of Tankless Water Heaters2Flow rate @ 70°F rise (gpm)10.8Flow rate @ 100°F rise (gpm)7.6Minimum input rate (Btuh)15,000Maximum input rate (Btuh)398,000AccessoriesCascade Controls - REU-EZC-3Offset Wall BracketIncluded	Gas Trunk Line Diameter	 1-1/2 in.	
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Electric RequirementsVoltageAC 120 Volts - 60 HzMaximum Current (Amperes)8BTU and Flow Rates for CX199i (NG/LP)Number of Tankless Water Heaters2Flow rate @ 70°F rise (gpm)10.8Flow rate @ 100°F rise (gpm)7.6Minimum input rate (Btuh)15,000Maximum input rate (Btuh)398,000AccessoriesCascade Controls - REU-EZC-3Offset Wall BracketIncluded	Gas Trunk Line Material	Schedule 40 Steel	
VoltageAC 120 Volts - 60 HzMaximum Current (Amperes)8BTU and Flow Rates for CX199i (NG/LP)Number of Tankless Water Heaters2Flow rate @ 70°F rise (gpm)10.8Flow rate @ 100°F rise (gpm)7.6Minimum input rate (Btuh)15,000Maximum input rate (Btuh)398,000AccessoriesCascade Controls - REU-EZC-3Offset Wall BracketIncluded	Gas Branch Line Material	PVC Over CSST	
Maximum Current (Amperes)8BTU and Flow Rates for CX199i (NG/LP)Number of Tankless Water Heaters2Flow rate @ 70°F rise (gpm)10.8Flow rate @ 100°F rise (gpm)7.6Minimum input rate (Btuh)15,000Maximum input rate (Btuh)398,000AccessoriesCascade Controls - REU-EZC-3Pre-installedOffset Wall BracketIncluded	Electric Requirements		
BTU and Flow Rates for CX199i (NG/LP)Number of Tankless Water Heaters2Flow rate @ 70°F rise (gpm)10.8Flow rate @ 100°F rise (gpm)7.6Minimum input rate (Btuh)15,000Maximum input rate (Btuh)398,000AccessoriesCascade Controls - REU-EZC-3Offset Wall BracketIncluded	Voltage	AC 120 Volts - 60 Hz	
Number of Tankless Water Heaters2Flow rate @ 70°F rise (gpm)10.8Flow rate @ 100°F rise (gpm)7.6Minimum input rate (Btuh)15,000Maximum input rate (Btuh)398,000AccessoriesCascade Controls - REU-EZC-3Pre-installedOffset Wall BracketIncluded	Maximum Current (Amperes)	8	
Flow rate @ 70°F rise (gpm)10.8Flow rate @ 100°F rise (gpm)7.6Minimum input rate (Btuh)15,000Maximum input rate (Btuh)398,000AccessoriesCascade Controls - REU-EZC-3Pre-installedOffset Wall BracketIncluded	BTU and Flow Rates for CX199i (NG/LP)		
Flow rate @ 100°F rise (gpm)7.6Minimum input rate (Btuh)15,000Maximum input rate (Btuh)398,000AccessoriesCascade Controls - REU-EZC-3Pre-installedOffset Wall BracketIncluded	Number of Tankless Water Heaters	2	
Minimum input rate (Btuh) 15,000 Maximum input rate (Btuh) 398,000 Accessories Cascade Controls - REU-EZC-3 Offset Wall Bracket Included	Flow rate @ 70°F rise (gpm)	10.8	
Maximum input rate (Btuh) 398,000 Accessories Cascade Controls - REU-EZC-3 Offset Wall Bracket Included	Flow rate @ 100°F rise (gpm)	7.6	
Accessories Cascade Controls - REU-EZC-3 Offset Wall Bracket Included	Minimum input rate (Btuh)	15,000	
Cascade Controls - REU-EZC-3 Pre-installed Offset Wall Bracket Included	Maximum input rate (Btuh)	398,000	
Offset Wall Bracket Included	Accessories		
	Cascade Controls - REU-EZC-3	Pre-installed	
Free Standing Leg Kit Optional Accessory	Offset Wall Bracket	Included	
	Free Standing Leg Kit	Optional Accessory	



TRX02CX

CX and CXP Series

3-Unit Wall-Hanging Frame





Model	Configuration	Illustration
TRW03CX		

CX and CXP Series 3-Unit Wall-Hanging Frame (Continued)

Model	TRW03CXi	TRW03CXPi		
Water Heater Model	CX199i (NG/LP)	QTY 2 CXP199i & QTY 1 CX199i		
Crate Dimensions (HxLxD) - in	66 x 70 x 35			
Weight - Fully Assembled - Ibs	228			
Weight - Shipping (total) - Ibs	449			
Rack Frame - Specifications				
Frame Material	Aluminui	m		
Frame Finish	Powder C	oat		
Color	Gray			
Water & Gas Connections				
Hot Water Trunk Line Diameter	2"			
Cold Water Trunk Line Diameter	2"			
Hot Water Trunk Line Material	Rigid Cop	per		
Cold Water Trunk Line Material	Rigid Cop	per		
Water Trunk Connection Type	2" PIPE	E		
Gas Trunk Line Diameter	1-1/4"			
Gas Trunk Connection Type	1-1/4" MN	IPT		
Gas Trunk Line Material	Sch 40 St	eel		
Gas Branch Line Material	PVC Over C	SST		
Electric Requirements				
Voltage	AC 120 Volts	- 60 Hz		
Maximum Current (Amperes)	12			
BTU and Flow Rates for CX199i(NG/LP)				
Number of Tankless Water Heaters	3			
Flow rate @ 70°F rise (gpm)	16.2			
Flow rate @ 100°F rise (gpm)	11.4			
Minimum input rate (Btuh)	15,000			
Maximum input rate (Btuh)	597,000			

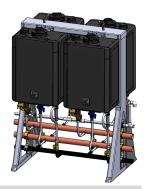
TRW03CX / TRW03CXP

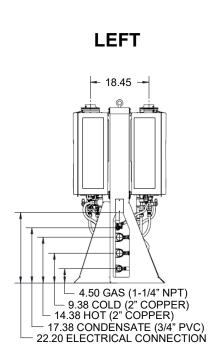


FREE-STANDING RACKS

Available Configurations

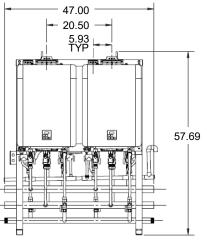
• 2-Units, 3-Units, 4-Units, 5-Units, 6-Units

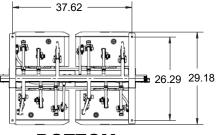




4-Unit Free-Standing Frame

FRONT





BOTTOM

Model	Configuration	Illustration
TRS04CX		
TRS03CX		

Model	Configuration	Illustration
TRS02ILCX	Inline (facing same direction)	

4-Unit Free-Standing Frame (Continued)

Model	TRS04CX	TRS03CX	TRS02ILCX	
Water Heater Model	CX199i (NG/LP)			
Crate Dimensions (HxLxD) - in	66 x 70 x 35			
Weight - Fully Assembled - Ibs	365	290	214	
Weight - Shipping (total) - Ibs	562	490	416	
Rack Frame - Specifications				
Frame Rail Type		Sheet Metal		
Frame Material		Aluminum (0.090 5052	-H32)	
Frame Finish		Powder Coat		
Color		Gray		
Water & Gas Connections				
Hot Water Trunk Line Diameter		2"		
Cold Water Trunk Line Diameter		2"		
Hot Water Trunk Line Material		Rigid Copper		
Cold Water Trunk Line Material		Rigid Copper		
Water Trunk Connection Type		2" PIPE		
Gas Trunk Line Diameter		1-1/4"		
Gas Trunk Connection Type	1-1/4" MNPT			
Gas Trunk Line Material	Sch 40 Steel			
Gas Trunk Branch Line Material		PVC Over CSST		
Condensate Trunk Line Diameter	3/4"		N/A	
Condensate Trunk Material	Sch - 40	PVC	N/A	
Condensate Trunk Connection Type	3/4" Pi	ре	N/A	
Electric Requirements				
Prewired Electrical Assembly	Yes (Indoor Mo	odels Only)	N/A	
Voltage		AC 120 Volts - 60 H	Hz	
Maximum Current (Amperes)	16	8		
BTU and Flow Rates for CX199i (N	IG/LP)			
Number of Tankless Water Heat- ers	4	3	2	
Flow rate @ 70°F rise (gpm)	21.6	16.2	10.8	
Flow rate @ 100°F rise (gpm)	15.2	11.4	7.6	
Minimum input rate (Btuh)	15,000			
Maximum input rate (Btuh)	796,000	597,000	398,000	

TRS04CX

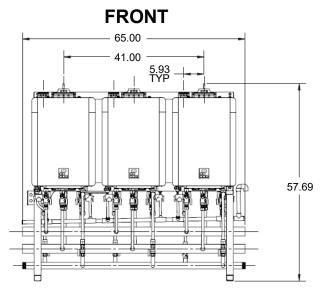


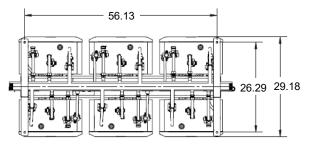


TRS02ILCX



6-Unit Free-Standing Frame





BOTTOM

Model	Configuration	Illustration	Model	Configuration	Illustration
TRS06CX			TRS03ILCX		
TRS05CX					

6-Unit Free-Standing Frame (Continued)

Model	TRS06CX	TRS05CX	TRS03ILCX	
Water Heater Model	CX199i (NG/LP)			
Crate Dimensions (HxLxD) - in	66 x 70 x 35			
Weight - Fully Assembled - Ibs	540	465	315	
Weight - Shipping (total) - Ibs	737	662	512	
Rack Frame - Specifications				
Frame Rail Type		Sheet Metal		
Frame Material	Al	uminum (0.090 5052-H	32)	
Frame Finish		Powder Coat		
Color		Gray		
Water & Gas Connections				
Hot Water Trunk Line Diameter	2-1/2'		2"	
Cold Water Trunk Line Diameter	2-1/2'	,	2"	
Hot Water Trunk Line Material	Rigid Copper			
Cold Water Trunk Line Material		Rigid Copper		
Water Trunk Connection Type	2-1/2" Pl	2" PIPE		
Gas Trunk Line Diameter	1-1/2" 1-1/4"			
Gas Trunk Connection Type	1-1/2" MM	1-1/4"MNPT		
Gas Trunk Line Material		Sch 40 Steel		
Gas Branch Line Material		PVC Over CSST		
Condensate Trunk Line Diameter		3/4"		
Condensate Trunk Line Material		Sch - 40 PVC		
Condensate Trunk Connection Type		3/4" Pipe		
Electric Requirements				
Prewired Electrical Assembly		Yes (Indoor Models Onl	y)	
Voltage	AC 120 Volts - 60 Hz			
Max Current (Amperes)	24	12		
BTU and Flow Rates for CX199i (NG/L	.P)			
Number of Tankless Water Heaters	6	5	3	
Flow rate @ 70°F rise (gpm)	32.4	27.0	16.2	
Flow rate @ 100°F rise (gpm)	22.8	19.0	11.4	
Minimum input rate (Btuh)	15,000			
Maximum input rate (Btuh)	1,194,000	597,000		

TRS06CX



TRS05CX



TRS03ILCX



3. Venting

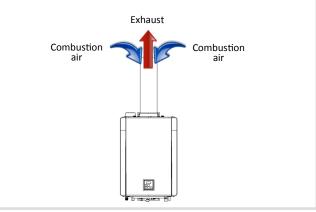
Venting components are packaged separately from the pre-assembled rack for field assembly of the vent system by the contractor.

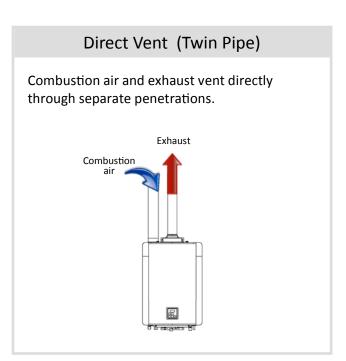
The following vent options are available:

- Direct Vent with Concentric Pipe
- Direct Vent with Twin Pipe
- Common Vent

Direct Vent (Concentric Pipe)

Combustion air and exhaust vent directly through a single concentric connection. Hot exhaust exits through the interior tube, while combustion air enters through the outer layer.

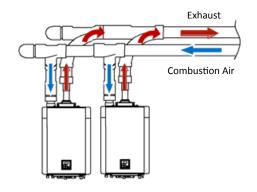




Common Vent (Indoor Units Only. Direct Vent and Non-Direct/Room Air Vent)

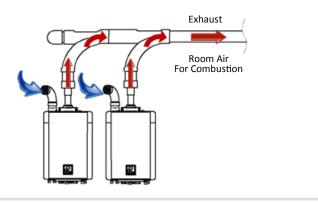
Direct Vent

Multiple water heaters sharing a combustion air header and a separate exhaust header that vents directly through separate penetrations to the outside.



Non-Direct (Room Air) Vent

Multiple water heaters using room air for combustion while sharing an exhaust header that vents directly to the outside.



The following table lists the vent options for the CX and CXP Series tankless water heaters.

Vent Options	Vent Material		Diameter		Max.	Maximum
	Exhaust	Intake	Header	Vent	Units	Vent Length
Common Vent	Polypropylene or Schedule 40 PVC/CPVC	Polypropylene or Schedule 40 PVC/CPVC	3 in.		2	65 FT
			4 in.		4	1-3 Units: 150 FT 4 Units: 65 FT
			4 in.	6 in.	7	1-6 Units: 150 FT 7 Units: 70 FT
			6 in.		8	150 FT
Concentric Pipe	Polypropylene	Schedule 40 PVC		5 in.	150 FT	
				4 in.	in. 1	75 FT
Twin Pipe	Polypropylene* or Schedule 40 PVC/CPVC	Schedule 40 PVC/CPVC		3 in.	1	150 FT
				2 in.		75 FT

Vent Options for CX and CXP Series Tankless Water Heaters

* Twin Pipe Polypropylene venting is provided by Centrotherm through their own distribution network.

4. Multiple Water Heaters

With use of cascade cable(s) up to 24 water heaters can be electronically connected. This connection will rotate water heater operation order to ensure equal usage among the entire system and enables all water heaters connected to modulate operation and function as one hot water source.

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