

District Office- Tenant Improvement

981 Ridder Park Drive, San Jose, CA 95131
MDG Project # 2203

MECHANICAL UPGRADES – BID #B-03-2022-23
ELECTRICAL UPGRADES – BID #B-04-2022-23
GENERAL CONSTRUCTION – BID #B-05-2022-23

October 6, 2022

**Berryessa Union School District
SAN JOSE, CALIFORNIA**

This Addendum forms a part of the Contract Documents and modifies and clarifies the Notice to Bidders as noted below. Bidders must acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

GENERAL BIDDING CLARIFICATION

Item #1:

- A. BID #B-03-2022-23 - MECHANICAL UPGRADES – Revised bid date – The bid date has been changed to October 27, 2022, at 2:00PM.
- B. BID #B-03-2022-23 - ELECTRICAL UPGRADES – Revised bid date – The bid date has been changed to October 27, 2022, at 2:30PM.
- C. BID #B-03-2022-23 – GENERAL CONSTRUCTION – Revised bid date – The bid date has been changed to October 27, 2022, at 3:00pm.

Item #2:

- A. An additional Non-Mandatory Pre-Bid Conference and Job Walk for these projects is scheduled for. October 11, 2022, beginning at 1:00PM. Meet outside in the parking lot at the New District Office, 981 Ridder Park Dr, San Jose, CA 95132. COVID 19 Guidelines will be enforced – social distancing is required. Contractors are not to visit the site without an appointment.

SPECIFICATIONS CLARIFICATIONS

Item #1:

- A. Add – Bid Division 1 - Plumbing material & fixture selections – Addendum 2 – 36 pages

Item #2:

- A. Section 01 10 12 – Bid Division Descriptions – Replace the section in its entirety with the revised section 01 10 12 marked addendum 2

SPECIFICATIONS CLARIFICATIONS – CONTINUED

Item #3

- A. Section 00 43 13 – Bid Bond form – Replace the section in its entirety with the revised section 00 43 13 Bid Bond form marked addendum 2

DRAWING CLARIFICATIONS

-----ARCHITECTURAL-----

Item #1: Replace the Architectural plan set in its entirety with addendum 2 plan set – 22 pages

-----PLUMBING-----

Item #1: Add Plumbing plan sheet P1.0 marked addendum 2 – 1 page

-----MECHANICAL-----

Item #1: Replace the Mechanical plan set in its entirety with addendum 2 plan set – 9 pages

-----ELECTRICAL-----

Item #1: Replace the Electrical plan set in its entirety with addendum 2 plan set – 21 pages

Attachments:

Plumbing material & fixture selections – 36 pages

Specification section 01 10 12 – Bid Division Descriptions

Specification section 00 43 13 – Bid Bond form

Addendum 2 plan set – 53 pages

End of Addendum #02

KOHLER®

Bannon™
Service Sink
K-6714

Features

- KOHLER® cast iron.
- Wall-mount.
- Rectangular basin.
- With rim guard.
- Acid-resistant enamel finish.
- Without overflow.
- 8-inch centers.
- 22-1/4" (565 mm) x 18-1/4" (464 mm)

Recommended Accessories

K-6672

K-6673 Adjustable Trap

K-8905 Service Sink Faucet

K-8907 Service Sink Faucet

Components

Additional included component/s: Hangers, and stainless steel rim guard.



Codes/Standards

ASME A112.19.1/CSA B45.2

KOHLER® Lifetime Limited Warranty for Cast Iron Components

See website for detailed warranty information.

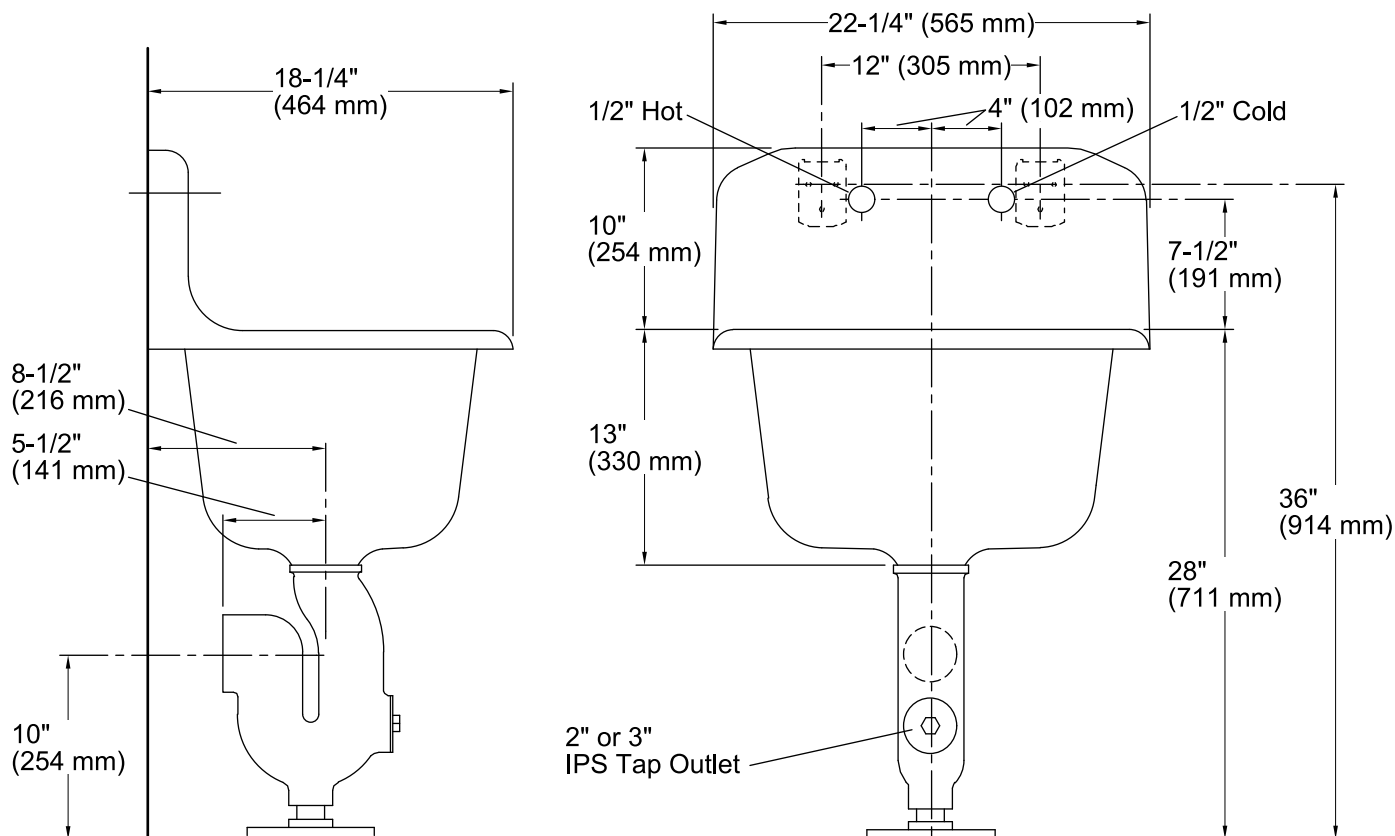
Available Color/Finishes

Color tiles intended for reference only.

Color	Code	Description
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0	White
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Technical Information

All product dimensions are nominal.

Bowl configuration: Single

Installation: Wall-mount

Bowl area (Only) Length: 18" (457 mm)
Width: 14" (356 mm)
Water depth: 12" (305 mm)

Number of deck holes: 2

Faucet hole(s): 1-1/2" (38 mm)

Drain hole: 3-1/8" (80 mm)

Notes

Install this product according to the installation instructions.

Features

- Brass construction
- For 8" (203 mm) centers
- Brass valve bodies
- Valvet® valves
- Internal NPT connections
- ADA compliant lever handles
- Vacuum breaker
- 4-5/8" (117 mm) threaded spout for hose connection
- 7-1/4" (184 mm) wall-to-spout outlet
- Pail hook
- Wall brace

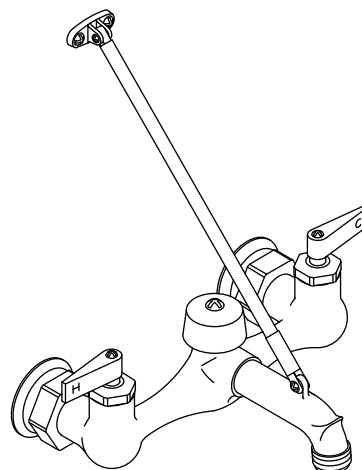
Codes/Standards Applicable

Specified model meets or exceeds the following:

- ASME A112.18.1/CSA B125.1
- IAPMO/cUPC
- ADA

SERVICE SINK FAUCET K-8907

ADA



Colors/Finishes

- CP: Polished Chrome
- RP: Rough Plate

Specified Model

Model	Description	Colors/Finishes	
K-8907	Service sink faucet	☐ CP	☐ RP

Product Specification

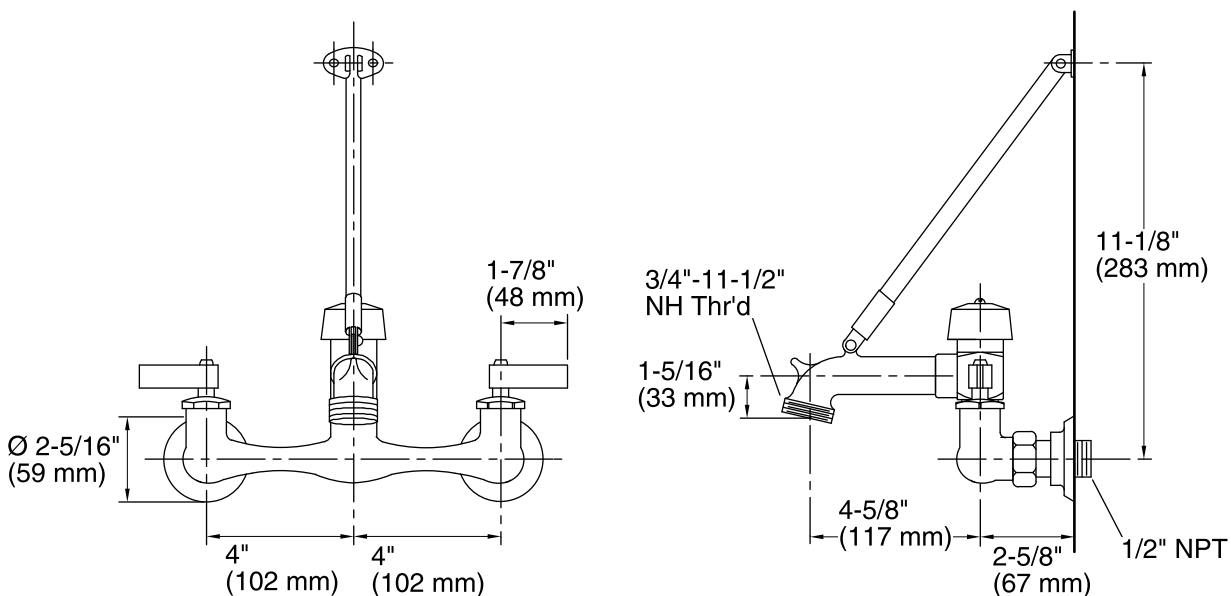
Two-handle service sink faucet shall be of brass construction. Faucet shall feature brass valve bodies. Faucet shall also feature Valvet valves. Product shall include 8" (203 mm) centers, 4-5/8" (117 mm) threaded spout for hose connection, 7-1/4" (184 mm) wall-to-spout outlet, lever handles, pail hook, vacuum breaker, wall brace, and internal NPT connections. Faucet shall be Kohler Model K-8907-_____.

KINLOCK™

Installation Notes

Install this product according to the installation guide.

Product complies with ASME A112.18.1/CSA B125.1. All dimensions are nominal.



Product Diagram

CMT SERIES - MINI TANK WATER HEATER

TYPICAL APPLICATIONS: *Commercial, Industrial, Residential, Public Lavatories.*

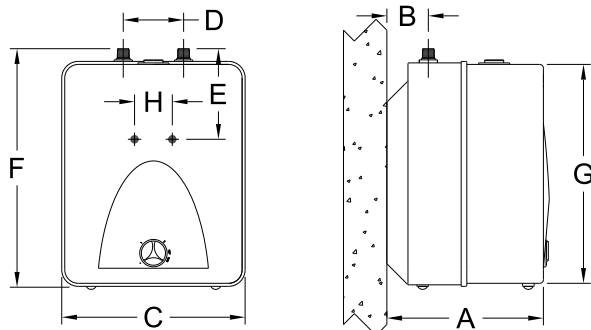
PRODUCT FEATURES

- Point-of-Use Application
- Compact Design
- Easy Installation
- Adjustable Temperatures
- Includes Temperature/Pressure Relief Valve
- Hanging Bracket provided
- Power Plug Outlet Ready
- Field Replaceable Heating Element
- 1/2" NPT Connections / 3/4" NPT Connections - CMT 6.0

PRODUCT SPECIFICATIONS

Voltage:	110/120 volts
Amps:	12 amps
Heating Capacity:	1440 watts
Temperature Ranges:	50°-140°F
Max Operating Pressure:	80 psi
Max Pressure:	150 psi

DIMENSIONAL INFORMATION



	CMT-1.3	CMT-2.5	CMT-4.0	CMT-6.0
A	10.0"	10.375"	10.375"	15.5"
B	2.25"	2.75"	2.75"	2.75"
C	11.0"	11.75"	11.75"	15.75"
D	4.0"	4.0"	4.0"	4.0"
E	6.0"	6.0"	6.0"	6.0"
F	13.5"	15.5"	20.25"	23.0"
G	12.5"	14.5"	19.25"	18.0"
H	2.5"	2.5"	2.5"	2.5"



Member of
U.S. Green
Building Council



Water
Conserving
Product

Complies
with
Standards
for:



Mini Tank Water Heater

The Chronomite Mini Tank Water Heaters can be used in most under the counter, point of use applications. Models CMT-1.3, CMT-2.5, CMT-4.0 and CMT-6.0 are designed to supply hot water for all Hand Wash and Kitchen Sinks in a residential, commercial or industrial environment. These heaters can replace traditional central hot water heaters thereby conserving water and reducing energy waste. The Chronomite Mini tank Water Heaters are lightweight, compact, manufactured for easy installation, and designed to be mounted on the wall.

BASE MODEL NUMBER (Must Specify):

☐ CMT - 1.3

Tank Volume: 1.3 gallon
Dimensions: 12.5" H x 11" W x 10" D
Weight: 15 lbs.

☐ CMT - 2.5

Tank Volume: 2.5 gallon
Dimensions: 14.5" H x 11.75" W x 10.375" D
Weight: 18 lbs.

☐ CMT - 4.0

Tank Volume: 4.0 gallon
Dimensions: 19.25" H x 11.75" W x 10.375" D
Weight: 22 lbs.

☐ CMT - 6.0

Tank Volume: 6.0 gallon
Dimensions: 18" H x 15.75" W x 15.5" D
Weight: 26 lbs.

Options

☐ CMT - ST70 (105°F) Tempering Valve

CHRONOMITE LABORATORIES, INC.
17451 Hurley St. :: City of Industry, CA 91744
Phone 800-447-4962 :: 626-937-4270
Fax 626-937-4279 :: www.chronomite.com

MEMBER OF



ELKAY®

INSTALLATION & USE MANUAL

Manual de instalación y uso

Manuel d'installation et utilisation

EZ™ & LZ™ Series Versatile Bottle Filling Stations & Coolers

EZ™ & LZ™ Serie versatil Botella Bombas y Enfriadores

EZ™ & LZ™ Stations versatile de Remplissage de Bouteille Série et Refroidisseurs

*Versatile Cooler Model LZSTL8WSLK
configuration as shipped



*Versatile cooler design allows units to be installed either left-hand high and right-hand low or left-low and right high.

Basin change may be required. See desired rough-in to help determine if the basin change is necessary.

Refrigerated unit must be installed on right-hand side.

*Versatile Cooler Model LZSTL8WSLK
alternate installations



Note: Danger! Electric shock hazard. Disconnect power before servicing unit.

Nota: peligro! Peligro de descarga eléctrica. Desconecte antes de reparar la unidad.

Remarque : Danger ! Risque d'électrocution. Débrancher avant de réparer l'appareil.

Pictured is unit only without bottle filler.

En la foto, la unidad sólo sin relleno botella.

Sur la photo, est une unité seulement sans remplissage de la bouteille.

Uses HFC-134A refrigerant

Usa refrigerante HFC-134A

Utilise du fluide frigorigène HFC-134A

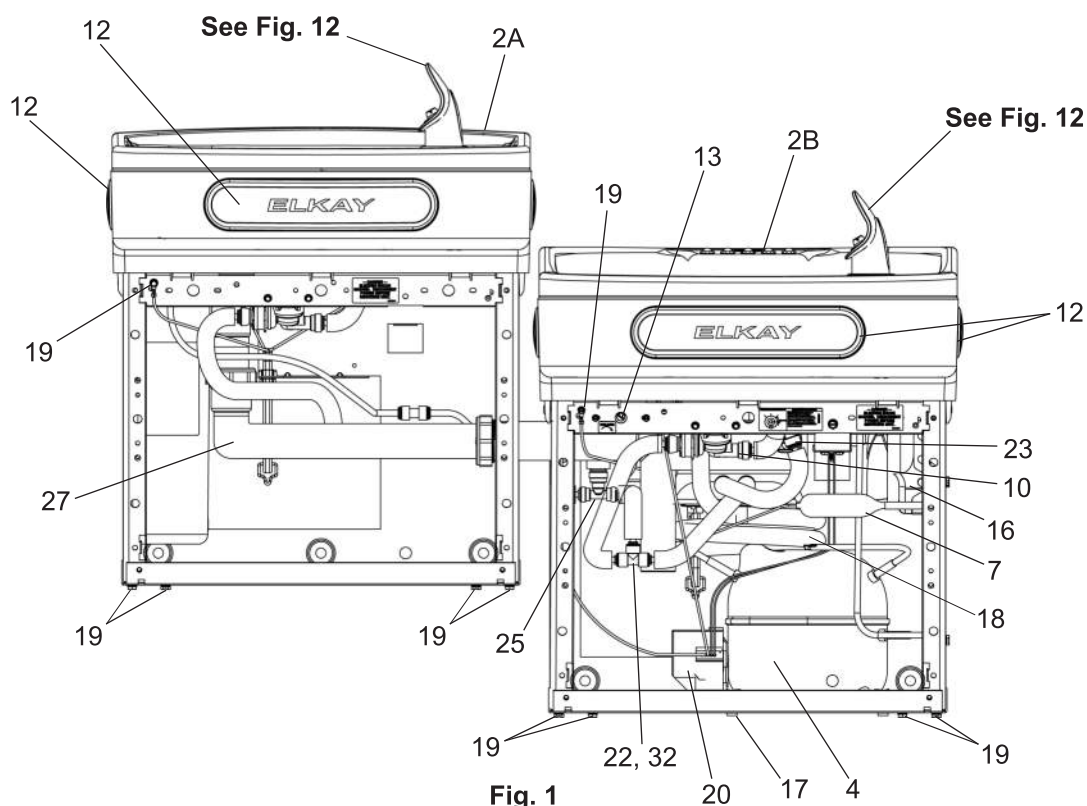
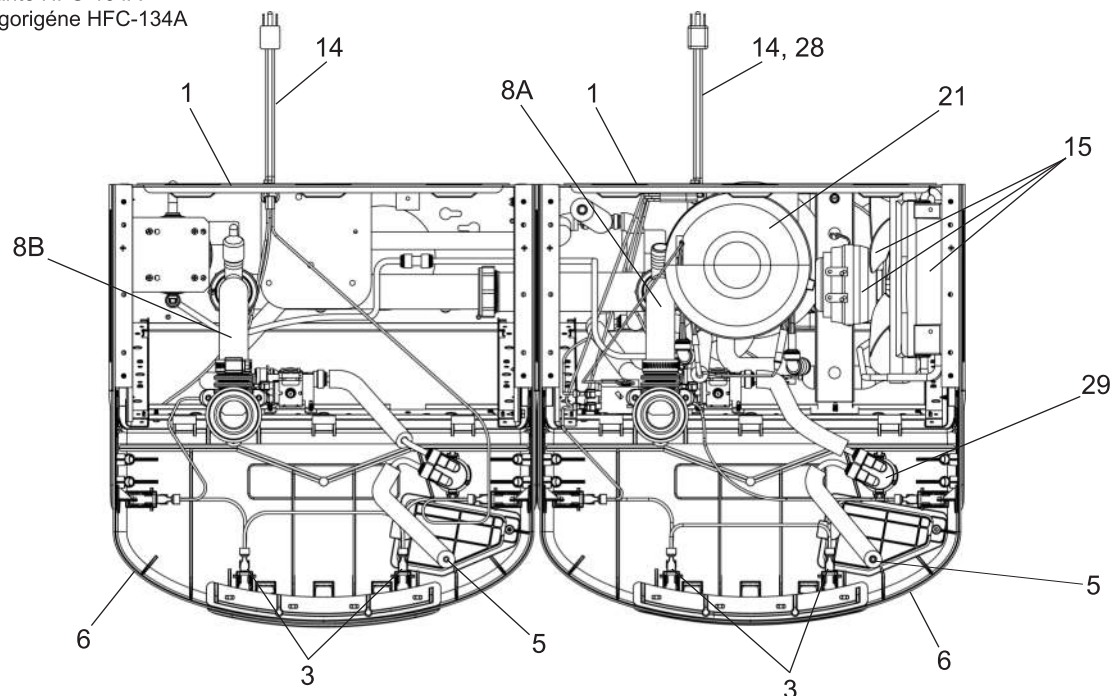
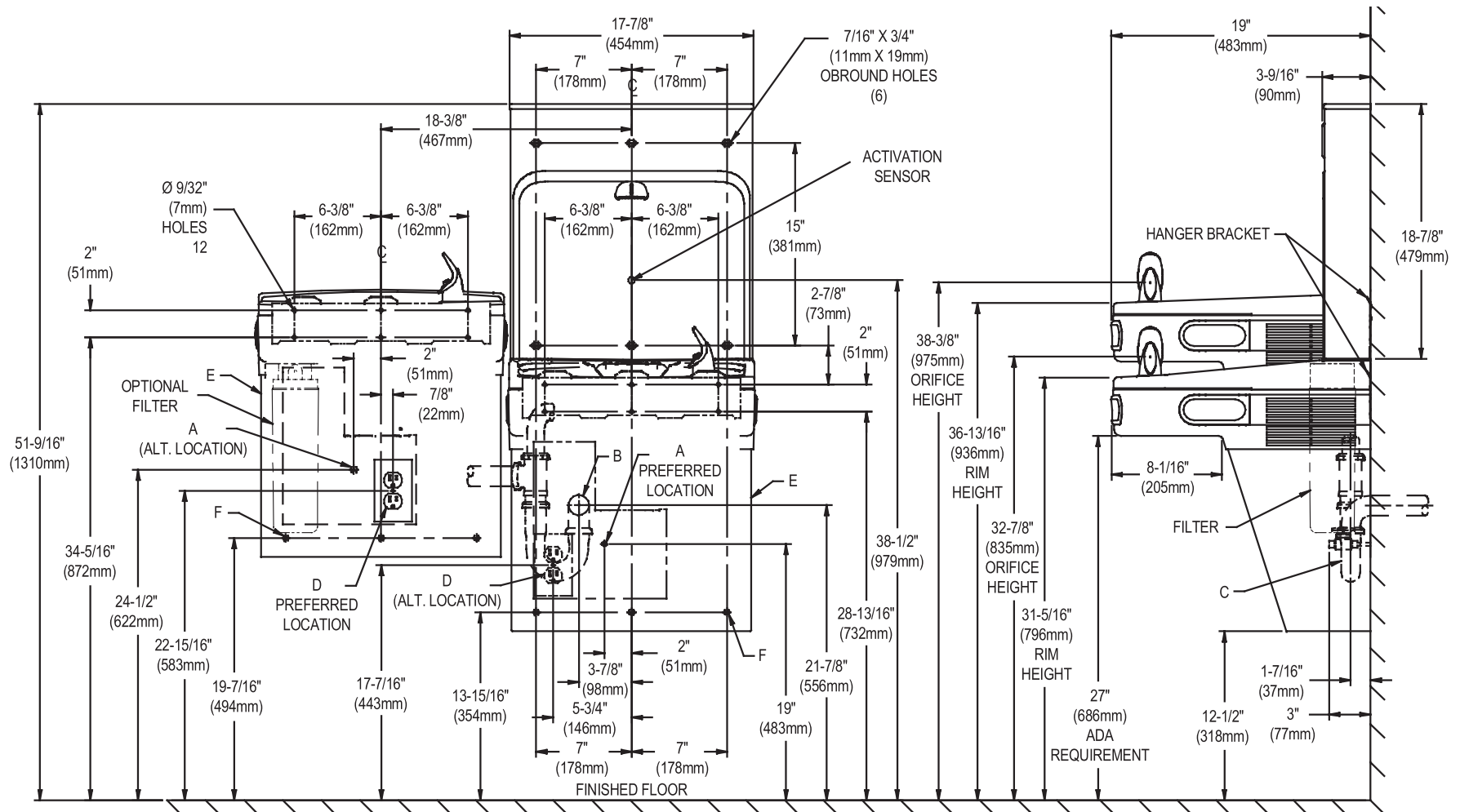


Fig. 1

STANDARD ROUGH-IN FOR LEFT-HAND HIGH, BOTTLE FILLER LOW MODELS



REDUCE HEIGHT BY 3 INCHES FOR INSTALLATION OF CHILDREN'S ADA COOLER

LEGEND/LEYENDA/LÉGENDE

A = RECOMMENDED WATER SUPPLY LOCATION 3/8 O.D. UNPLATED COPPER TUBE CONNECT STUB WITH SHUT OFF (BY OTHERS) 3 IN.

(76mm) MAXIMUM OUT FROM WALL

La UBICACION 3/8 O RECOMENDADA DE ABASTECIMIENTO DE AGUA, D. EI TUBO del COBRE de UNPLATED CONECTA TALONARIO CON APAGO (POR OTROS) 3 en. (76 mm) el MAXIMO FUERA DE PARED
L'O.D de 3/8 d'EMPLACEMENT DE PROVISION D'EAU RECOMMANDE. LE TUBE DE CUIVRE DE UNPLATED CONECTE STUB AVEC ETEINT (PAR LES AUTRES) 3 dans. (76 mm) le MAXIMUM HORS DU MUR

B = RECOMMENDED LOCATION FOR WASTE OUTLET 1-1/2" O.D. DRAIN STUB 2 IN. OUT FROM WALL

UBICACIÓN RECOMENDADA PARA EL DRENAJE DE SALIDA DE AGUA, DE 1-1/2" DE DIÁMETRO. EI TALONARIO 2 FUERA DE PARED
EMPLACEMENT RECOMMANDÉ POUR LE DRAIN DE D.E. 1-1/2" DE SORTIE D'EAU. STUB 2 HORS DU MUR

C = 1-1/2" TRAP NOT FURNISHED

PURGADOR DE 1-1/2" NO PROPORCIONADO
SIPHON 1-1/2" NON FOURNI

NOTE: IT IS HIGHLY RECOMMENDED THAT THE CIRCUIT BE DEDICATED AND THE LOAD PROTECTION BE SIZED FOR 20 AMPS.

LEGEND/LEYENDA/LÉGENDE

D = ELECTRICAL SUPPLY (3) WIRE RECESSED BOX DUPLEX OUTLET**

SUMINISTRO ELÉCTRICO (3) CAJA ENCHUFE DE ALAMBRE SALIDA DÚPLEX
ALIMENTATION ÉLECTRIQUE (3) BOÎTIER ENCASTRÉ

E = INSURE PROPER VENTILATION BY MAINTAINING 6" (152 mm) (MIN.) CLEARANCE FROM CABINET LOUVERS TO WALL.

ASEGURE UNA VENTILACIÓN ADECUADA MANTENIENDO UN ESPACIO E 6" (152 mm) (MIN.) DE HOLGURA ENTRE LA REJILLA DE VENTILACIÓN DEL MUEBLE Y LA PARED.

ASSUREZ-VOUS UNE BONNE VENTILATION EN GARDANT 6" (152 mm) (MIN.) ENTRE LES ÉVÉNEMENTS DE L'ENCEINTE ET LE MUR.

F = 7/16 BOLT HOLES FOR FASTENING UNIT TO WALL

AGUJEROS DE LAS TUERCAS DE 7/16 PARA SUJETAR LA UNIDAD A LA PARED
TROUS D'ÉCROUS 7/16 POUR FIXER L'APPAREIL AU MUR

****NEW INSTALLATIONS MUST USE GROUND FAULT CIRCUIT INTERRUPTER (GFCI)**

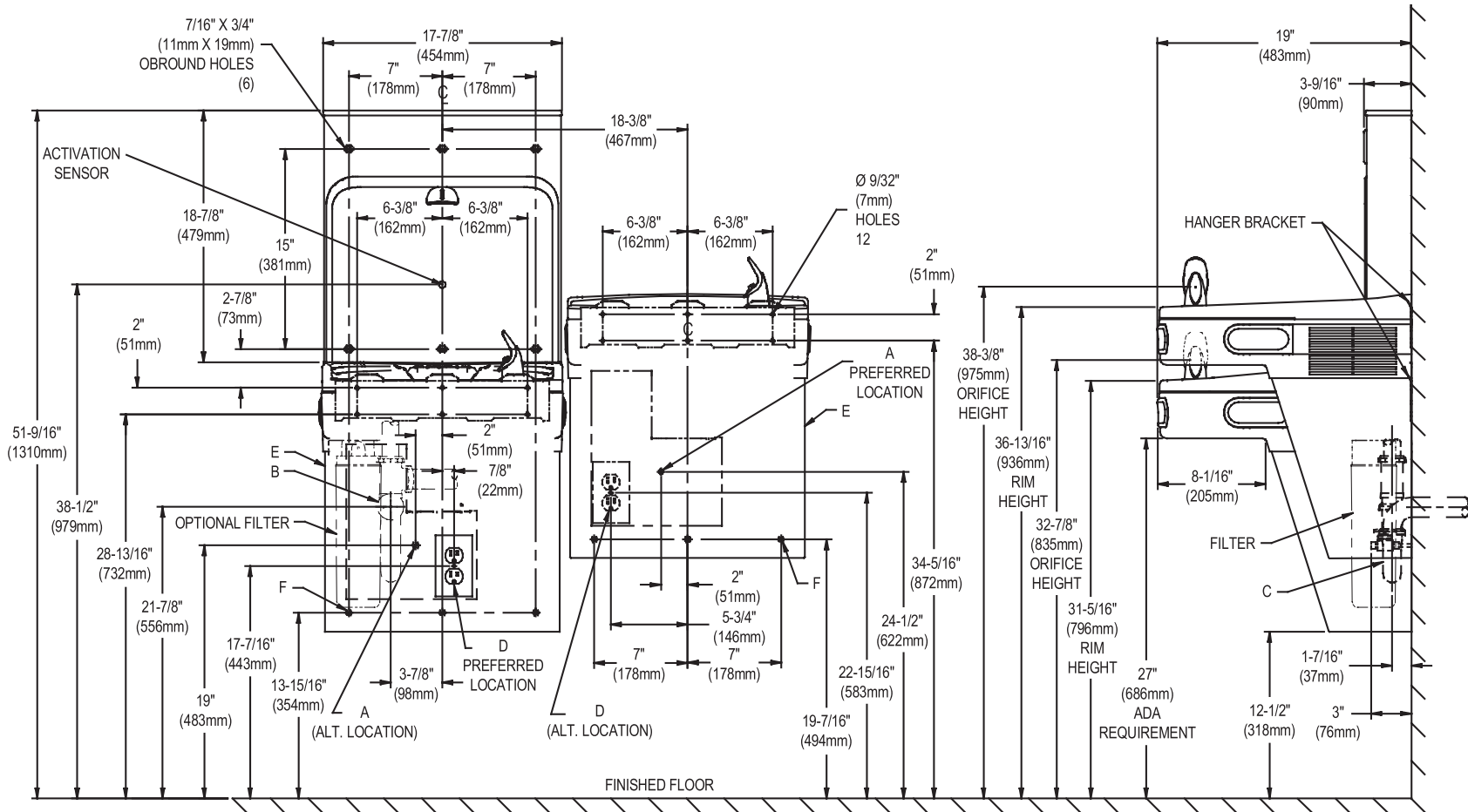
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REFRIGERATED UNIT MUST BE INSTALLED ON RIGHT-HAND SIDE.

ALTERNATE ROUGH-IN FOR RIGHT-HAND HIGH, BOTTLE FILLER LOW MODELS REQUIRES BASIN ASSY CHANGE. SEE PAGES 11-13 FOR INSTRUCTIONS

Fig. 3



REDUCE HEIGHT BY 3 INCHES FOR INSTALLATION OF CHILDREN'S ADA COOLER

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B = RECOMMENDED LOCATION FOR WASTE OUTLET 1-1/2" O.D. DRAIN STUB 2 IN. OUT FROM WALL

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EMPLACEMENT RECOMMANDE POUR LE DRAIN DE D.E. 1-1/2" DE SORTIE D'EAU. STUB 2 HORS DU MUR

C = 1-1/2" TRAP NOT FURNISHED

PURGADOR DE 1-1/2" NO PROPORCIONADO
SIPHON 1-1/2" NON FOURNI

NOTE: IT IS HIGHLY RECOMMENDED THAT THE CIRCUIT BE DEDICATED AND THE LOAD PROTECTION BE SIZED FOR 20 AMPS.

LEGEND/LEYENDA/LÉGENDE

D = ELECTRICAL SUPPLY (3) WIRE RECESSED BOX DUPLEX OUTLET**

SUMINISTRO ELECTRICO (3) CAJA ENCHUFE DE ALAMBRE SALIDA DÚPLEX
ALIMENTATION ELECTRIQUE (3) BOÎTIER ENCASTRE

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F = 7/16 BOLT HOLES FOR FASTENING UNIT TO WALL

AGUJEROS DE LAS TUERCAS DE 7/16 PARA SUJETAR LA UNIDAD A LA PARED

TROUS D'ÉCROUS 7/16 POUR FIXER L'APPAREIL AU MUR

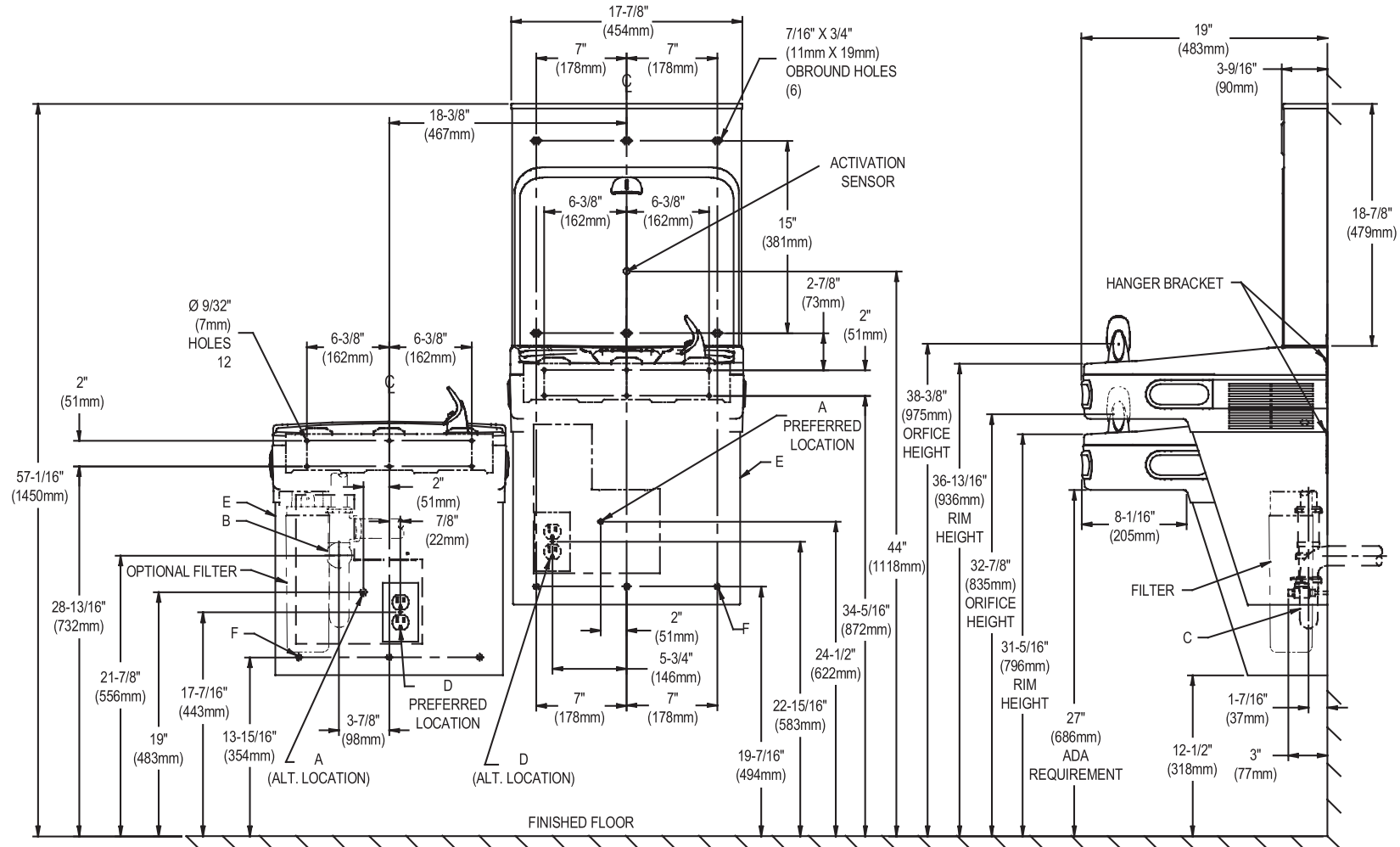
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**Les nouvelles installations doivent employer l'interrupteur de circuit moulu de défaut (GFCI)

REFRIGERATED UNIT MUST BE INSTALLED ON RIGHT-HAND SIDE.

ALTERNATE ROUGH-IN FOR RIGHT-HAND HIGH, BOTTLE FILLER HIGH MODELS



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B = RECOMMENDED LOCATION FOR WASTE OUTLET 1-1/2\" O.D. DRAIN STUB 2 IN. OUT FROM WALL

UBICACION RECOMENDADA PARA EL DRENAJE DE SALIDA DE AGUA. DE 1-1/2\" DE DIÁMETRO. El TALONARIO 2 FUERA DE PARED
EMPLACEMENT RECOMMANDE POUR LE DRAIN DE D.E. 1-1/2\" DE SORTIE D'EAU. STUB 2 HORS DU MUR

C = 1-1/2\" TRAP NOT FURNISHED

PURGADOR DE 1-1/2\" NO PROPORCIONADO
SIPHON 1-1/2\" NON FOURNI

NOTE: IT IS HIGHLY RECOMMENDED THAT THE CIRCUIT BE DEDICATED AND THE LOAD PROTECTION BE SIZED FOR 20 AMPS.

LEGEND/LEYENDA/LÉGENDE

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ALIMENTATION ÉLECTRIQUE (3) BÔTIER ENCASTRÉ

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F = 7/16 BOLT HOLES FOR FASTENING UNIT TO WALL

AGUJEROS DE LAS TUERCAS DE 7/16 PARA SUJETAR LA UNIDAD A LA PARED
TROUS D'ÉCROUS 7/16 POUR FIXER L'APPAREIL AU MUR

****NEW INSTALLATIONS MUST USE GROUND FAULT CIRCUIT INTERRUPTER (GFCI)**

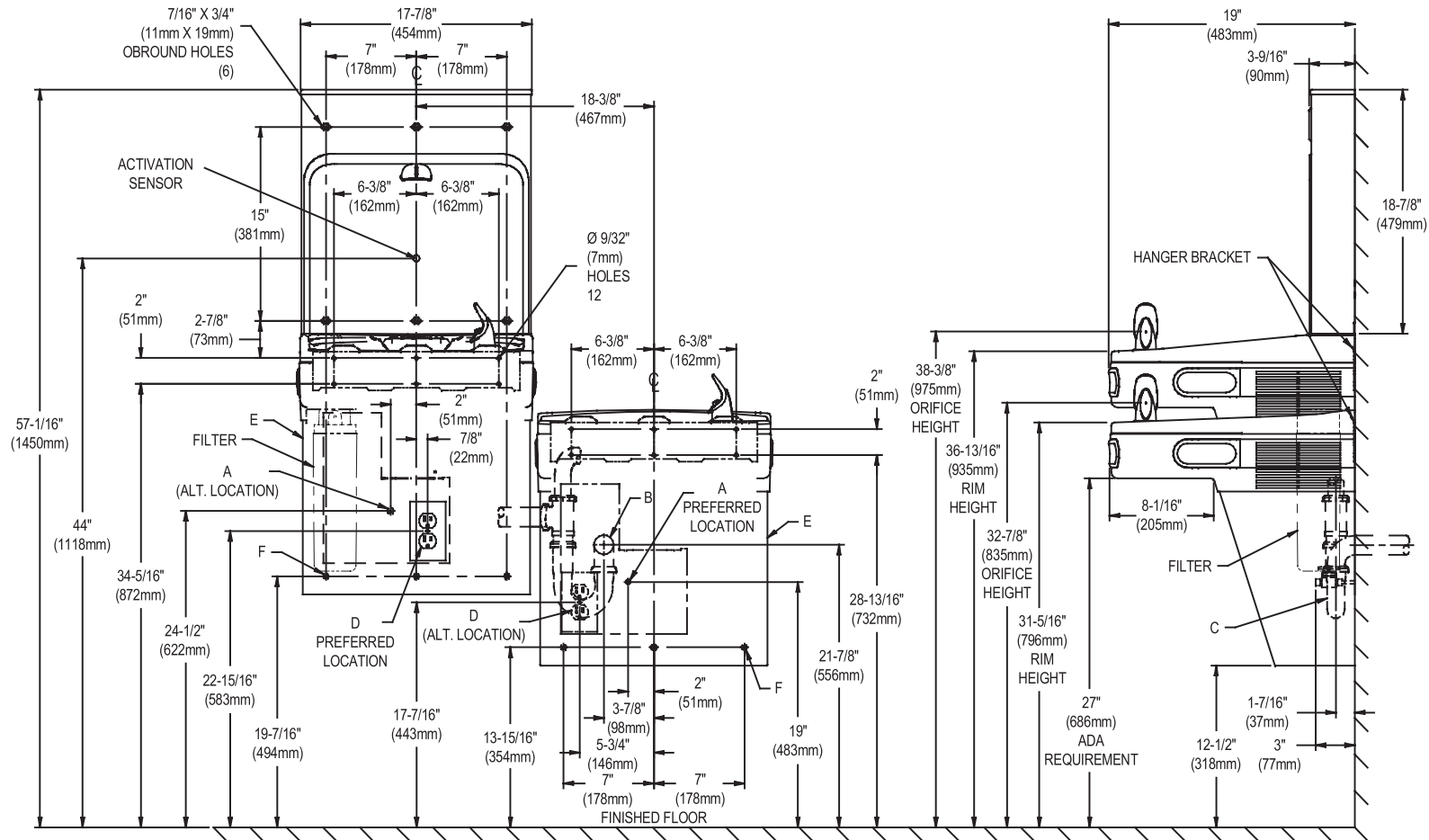
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REFRIGERATED UNIT MUST BE INSTALLED ON RIGHT-HAND SIDE.

ALTERNATE ROUGH-IN FOR LEFT-HAND HIGH, BOTTLE FILLER HIGH MODELS REQUIRES BASIN ASSY CHANGE. SEE PAGES 11-13 FOR INSTRUCTIONS

Fig. 5



REDUCE HEIGHT BY 3 INCHES FOR INSTALLATION OF CHILDREN'S ADA COOLER

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UBICACION RECOMENDADA PARA EL DRENAJE DE SALIDA DE AGUA. DE 1-1/2\" DE DIAMETRO. EI TALONARIO 2 FUERA DE PARED
EMPLACEMENT RECOMMANDE POUR LE DRAIN DE D.E. 1-1/2\" DE SORTIE D'EAU. STUB 2 HORS DU MUR

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LEGEND/LEYENDA/LÉGENDE

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ALIMENTATION ÉLECTRIQUE (3) BOÎTIER ENCASTRÉ

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ASSUREZ-VOUS UNE BONNE VENTILATION EN GARDANT 6\" (152 mm) (MÍN.) ENTRE LES ÉVENTS DE L'ENCEINTE ET LE MUR.

F = 7/16 BOLT HOLES FOR FASTENING UNIT TO WALL.

AGUJEROS DE LAS TUERCAS DE 7/16 PARA SUJETAR LA UNIDAD A LA PARED
TROUS D'ÉCROUS 7/16 POUR FIXER L'APPAREIL AU MUR

****NEW INSTALLATIONS MUST USE GROUND FAULT CIRCUIT INTERRUPTER (GFCI)**

****Las nuevas instalaciones deben utilizar el interruptor de circuito de tierra de la avería (GFCI)**

****Les nouvelles installations doivent employer l'interrupteur de circuit moulu de défaut (GFCI)**

REFRIGERATED UNIT MUST BE INSTALLED ON RIGHT-HAND SIDE.

HANGER BRACKETS INSTALLATION

- 1) Remove hanger brackets fastened to back of cooler by removing one (1) screw.
- 2) Mount the hanger brackets as shown in Figures 2, 3, 4 or 5.

NOTE: Hanger Bracket **MUST** be supported securely. Add fixture support carrier if wall will not provide adequate support. Anchor hanger securely to wall using all six (6) 1/4 in. dia. mounting holes.

INSTALLATION OF COOLER

- 3) Hang the cooler on the hanger bracket. Be certain the hanger bracket is engaged properly in the slots on the cooler back as shown in Figures 2, 3, 4 or 5.
- 4) Remove the four (4) screws holding the lower front panel at the bottom of cooler. Remove the front panel by pulling straight down and set aside.
- 5) Connect water inlet line--See Note 4 of General Instructions.
- 6) Install trap. Remove the slip nut and gasket from the trap and install them on the cooler waste line making sure that the end of the waste line fits into the trap. Assemble the slip nut and gasket to the trap and tighten securely.

IMPORTANT: If it is necessary to cut the drain, loosen the screw at the black rubber boot and remove tube, check for leaks after re-assembly.

- 7) Install bottle filler per page (11).
- 8) Plug in electrical power. Unit must have electrical power to have water flow.

START UP**Also See General Instructions**

- 9) Stream height is factory set at 35 PSI. If supply pressure varies greatly from this, adjust screw located on the right knee clearance area. CW adjustment will raise stream and CCW adjustment will lower stream. For best adjustment, stream should hit basin approximately 6-1/2" (165mm) from bubbler on the downward slope of the basin.

NOTE: If continuous flow occurs at the end of the compressor cycle, turn cold control counterclockwise 1/4 turn.

- 10) Replace the front panel ensuring that the metal wrapper is secured inside of the upper shroud. Replace all four screws previously removed.

CLEANING

Warm, soapy water or mild household cleaning products can be used to clean the exterior panels of the EZ coolers. Extra caution should be used to clean the mirror finished stainless steel panels. They can be easily scratched and should only be cleaned with mild soap and water or Windex glass cleaner and a clean, soft cloth. Use of harsh chemicals or petroleum based or abrasive cleaners **will void the warranty.**

INSTALACIÓN DE SOPORTES PARA COLGAR

- 1) Retire el soporte fijador que se encuentra conectado a la parte posterior del enfriador sacando un (1) tornillo.
- 2) Monte el soporte fijador de la manera descrita en Fig. 2, 3, 4 y 5.

NOTA: Es necesario que el soporte fijador sea apoyado seguramente. Agregue un portador al soporte fijador si la pared no aporta soporte adecuado. Amarre el soporte colgante seguramente a la pared. Usando todos los seis (6) agujeros de montaje de ¼ pulg. (6.35 mm) de diám.

INSTALACIÓN DEL ENFRIADOR

- 3) Cuelgue el enfriador en el soporte colgante. Asegúrese que el soporte colgante está enganchado adecuadamente en las ranuras en la parte posterior del enfriador según descrito en Figura 2, 3, 4 y 5.
- 4) Retire los cuatro (4) tornillos que sujetan el panel frontal inferior en el pie del enfriador. Retire el panel frontal al jalarlo hacia abajo y póngalo al lado.
- 5) Conecte la tubería de entrada de agua – Consulte la Nota 4 de la Instrucciones Generales.
- 6) Instale el purgador. Retire la tuerca deslizando y el obturador del purgador e instáloselos en la tubería de descarga del enfriador, asegurándose de que el extremo de la tubería de descarga encaje en el purgador. Ensamble la tuerca deslizando y el obturador en el purgador y apriete firmemente.

IMPORTANTE: Si llega a ser necesario cortar la tubería de descarga, afloje el tornillo en el fuelle negro de goma y retire la tubería, después del reensamblaje, compruebe que no haya pérdidas.

- 7) Instalación de llenado de la botella por página (11).
- 8) Enchufe la alimentación eléctrica.

INICIO**También consulte las Instrucciones Generales**

- 9) La altura del chorro viene predefinida de la fábrica en 35 psi. Si la presión de la fuente varía grandemente de esto, ajuste el tornillo situado en el lado izquierdo debajo de la barra del empuje ass'y. en la barra transversal. Un ajuste en el sentido de las manecillas del reloj alzará al chorro y un ajuste en el sentido contrario a las manecillas del reloj bajará el chorro. Para lograr el mejor ajuste, el chorro debe caer al estanque aproximadamente un 6-1/2 pulg. (165 mm) del grifo en la inclinación hacia abajo del estanque.

NOTA: Si ocurre un flujo continuo al fin del ciclo del compresor, gire el control del agua fría una cuarta vuelta en el sentido contrario a las manecillas del reloj.

- 10) Reemplace el panel frontal asegurando que la envoltura metálica está bien sujeta adentro de la cubierta superior. Reemplace todos los cuatro tornillos previamente retirados.

LIMPIEZA

Se puede usar agua tibia enjabonada o un producto no abrasivo de limpieza para limpiar los paneles exteriores de los enfriadores EZ. Debe usar mucho cuidado al limpiar los paneles de acero inoxidable de acabado espejo. Es muy fácil rayarlos y únicamente debe limpiarse con jabón no abrasivo y agua o con el limpiador de vidrios Windex y un paño limpio y suave. El uso de productos químicos o limpiadores abrasivos o aquellos basados en petróleo **anulará la garantía.**

SUPPORTS DE CROCHET DE SUSPENSION INSTALLATION

- 1) Retirez le support de suspension fixé au dos du refroidisseur en retirant une (1) vis.
- 2) Montez le support de suspension comme indiqué dans la figure 2, 3, 4 et 5.

REMARQUE: Le support de suspension doit être accroché sûrement. Renforcez le soutien du mur par l'ajout d'un élément porteur fixe si le mur ne peut pas, à lui tout seul, offrir un soutien suffisant. Fixez le support au mur en utilisant des trous de fixation de 6 pouces ¼ de diamètre.

INSTALLATION DU REFROIDISSEUR

- 3) Pendez le refroidisseur au support de suspension. Assurez-vous que le support est correctement inséré dans les emplacements au dos du refroidisseur, comme indiqué dans la figure 2, 3, 4 et 5.
- 4) Retirez les four (4) vis maintenant en place le panneau frontal au bas du refroidisseur. Retirez le capot inférieur en tirant vers le bas et mettez-le de côté.
- 5) Reliez l'alimentation en eau — Référez-vous à la remarque 4 des Instructions Générales.
- 6) Mettez en place le siphon. Retirez l'écrou coulissant et le joint statique du siphon et installez-les sur la conduite résiduaire du refroidisseur en vérifiant bien que l'extrémité de la conduite résiduaire entre dans le siphon. Installez l'écrou coulissant et le joint statique au siphon et serrez fortement.

IMPORTANT: Au cas où il serait nécessaire de couper le drain, déserrez la vis située sur la gaine noire en caoutchouc et retirez le tube, puis vérifiez qu'il n'y a pas de fuites avant de remonter.

- 7) Installation de remplissage de bouteille par page (11).
- 8) Branchez l'alimentation électrique.

DEMARRAGE**Voir également le chapitre Instructions Générales**

- 9) La pression de la vapeur a été réglée en usine à 35 psi. Si la pression d'approvisionnement change considérablement de ceci, ajustez la vis plac du côté gauche au-dessous de la barre de poussée ass'y. sur la barre transversale. Le réglage dans le sens des aiguilles d'une montre augmente le jet, et dans le sens inverse le diminue.

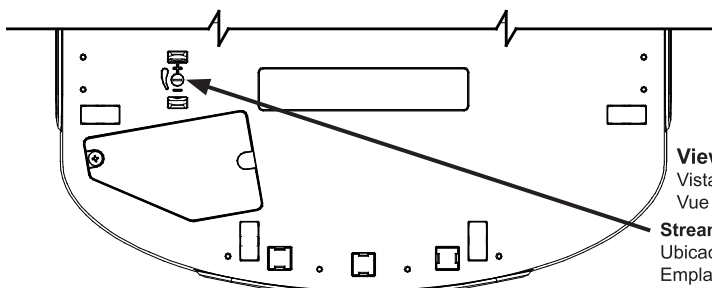
Pour un meilleur réglage, le jet doit frapper le bassin à une distance d'environ 6 pouces et demi (165 mm) du barboteur sur la pente descendante du bassin.

REMARQUE: Si un flot continu se déclenche à la fin du cycle de compression, tournez le Contrôle de refroidissement d'un quart de tour dans le sens inverse des aiguilles d'une montre.

- 10) Remettez le panneau frontal en place en vérifiant que le couvre-joint métallique est bien installé à l'intérieur de l'enveloppe de protection supérieure. Revissez les four vis ôtées précédemment.

ENTRETIEN

Utiliser de l'eau tiède savonneuse ou des produits de nettoyage domestiques doux pour nettoyer les panneaux extérieurs des refroidisseurs EZ. Une prudence supplémentaire est requise lors du nettoyage du miroir ou des panneaux inox. Ces éléments peuvent se rayer facilement et doivent être uniquement nettoyés à l'aide de savon doux et d'eau ou de liquide nettoyant pour vitres Windex et d'un chiffon doux et propre. L'utilisation de produits chimiques corrosifs et de nettoyants abrasifs ou dérivés du pétrole **annulera la garantie constructeur.**



View of Underside of Basin Shroud
Vista de la parte inferior de la cuenca cubierta
Vue de dessous du bassin du Saint-Suaire

Stream Height Adjustment Location
Ubicación de ajuste de altura de corriente
Emplacement de réglage hauteur Stream

Service Instructions

Lower and Upper Shroud

To access the refrigeration system and plumbing connections, remove four screws from bottom of cooler to remove the lower shroud. To remove the upper shroud for access to the pushbars, regulator, solenoid valve or other components located in the top of the unit, remove lower shroud, disconnect drain, remove four screws from tabs along lower edge of upper shroud, unplug two wires and water tube.

Bubbler

To remove the bubbler, first disconnect the power supply. The underside of the bubbler can be reached through the access panel on the underside of the upper shroud. Remove the access panel by removing the retaining screw. To remove the bubbler, loosen locknut from the underside of the bubbler and remove the tubing from the quick connect fitting per the Operation Of Quick Connect Fittings section in the General Instructions. After servicing, replace the access panel and retaining screw.

Switches Behind the Push Bar

The regulator in an EZ cooler is always held fully open by the use of a single regulator nut (See Fig. 6 or 7). Water is not dispensed until the pushbar is depressed to activate a switch which then opens a solenoid valve. When installing the regulator nut, the regulator spring must be depressed while turning the nut.

To remove sidebars, from the inside compress the flared tabs and pull out carefully. To reinstall side pushbars, the front of the pushbar is inserted first. While keeping the switch depressed, snap the rear of the pushbar into position.

Atienda a Instrucciones

Las cubiertas inferiores y superiores

Para obtener acceso al sistema de refrigeración y las conexiones de plomería, retire cuatro tornillos de la parte inferior del enfriador para así poder retirar la cubierta inferior. Para retirar la cubierta superior para obtener acceso a las barras tope de empuje, regulador, la válvula del solenoide u otros componentes ubicados en la parte superior de la unidad, retire la cubierta inferior, desconecte el tubo de desagüe, retire cuatro tornillos de las lengüetas a lo largo del borde inferior de la cubierta superior, desenchufe dos cables y la tubería de agua.

Burbujeador

Para quitar el burbujeador, primero hay que desconectar la alimentación.

Se puede obtener acceso a la parte inferior del burbujeador a través del panel de acceso en la parte inferior de la cubierta superior. Quite el panel de acceso sacando el tornillo de retención. Para retirar el burbujeador, suelte la contratuercas de la parte inferior del burbujeador y saque la tubería del accesorio de conexión rápida según descrito en la sección Funcionamiento de los Accesorios de Conexión Rápida en las Instrucciones Generales. Después de realizar el servicio, reemplace el panel de acceso y el tornillo de retención.

Interruptores detrás de la barra tope de empuje

El enfriador EZ es parecido a un sensor fotoeléctrico en que el regulador siempre está completamente abierto pero no suelte el agua hasta que la barra tope se empuje (Figura 6 or 7). Se escuchará un sonido de chasquidos al activar el interruptor y la válvula del solenoide. Una sola tuerca del regulador mantiene abierto el regulador en todo momento. Al instalar la tuerca, es necesario presionar el resorte del regulador mientras gira la tuerca.

Para retirar las barras laterales, desde el interior, hay que contraer las lengüetas acampanadas y retire cuidadosamente. Para reinstalar las barras tope laterales, se debe introducir la parte frontal de las barras primero. Con el interruptor presionado, encaje con un chasquido la parte posterior de la barra tope en la posición correcta.

Entretenir des Instructions

Enveloppes de Protection Supérieure et Inférieure

Pour accéder au système de réfrigération et aux raccords de plomberie, retirez les six vis situées au bas du refroidisseur pour retirer l'enveloppe inférieure.

Pour retirer l'enveloppe supérieure afin d'avoir accès aux boutons-poussoir, au régulateur, à l'électrovanne ou à tout autre composant situé au sommet de l'unité, retirez l'enveloppe inférieure, déconnectez le drain, retirez les quatre vis des pattes situées le long de l'arête inférieure de l'enveloppe supérieure, et débranchez les deux câbles ainsi que le raccordement en eau.

Barboteur

Pour déposer le barboteur, débranchez d'abord l'alimentation électrique. Le dessous du barboteur est accessible par le biais du panneau d'accès sur la face inférieure du collecteur d'air. Déposez le panneau d'accès en retirant la vis de retenue. Pour déposer le barboteur, desserrez l'écrou de blocage du dessous du barboteur et retirez la tubulure à partir du raccord rapide conformément à la section Utilisation des raccords rapides dans les instruction générales. Une fois le travail terminé, remplacez le panneau d'accès et la vis de

Interrupteurs derrière le bouton-poussoir

Le refroidisseur EZ a un fonctionnement similaire à celui d'un capteur photo-électrique, dans le sens où le régulateur est toujours complètement ouvert mais ne dispense de l'eau que lorsque l'on presse le bouton-poussoir (composant 6 or 7). Un cliquetis se produit quand l'interrupteur et l'électrovanne se mettent en marche. Un seul écrou de régulateur maintient le régulateur en position ouverte en permanence. Lors de l'installation de l'écrou, le ressort de détente doit être en position relâchée pendant le réglage de l'écrou.

Afin de retirer les barres latérales, pressez les pattes évasées de l'intérieur et tirez doucement. Pour réinstaller les barres latérales, la partie avant est d'abord insérée. En gardant l'interrupteur relâché, encastrez l'arrière du bouton-poussoir en position.

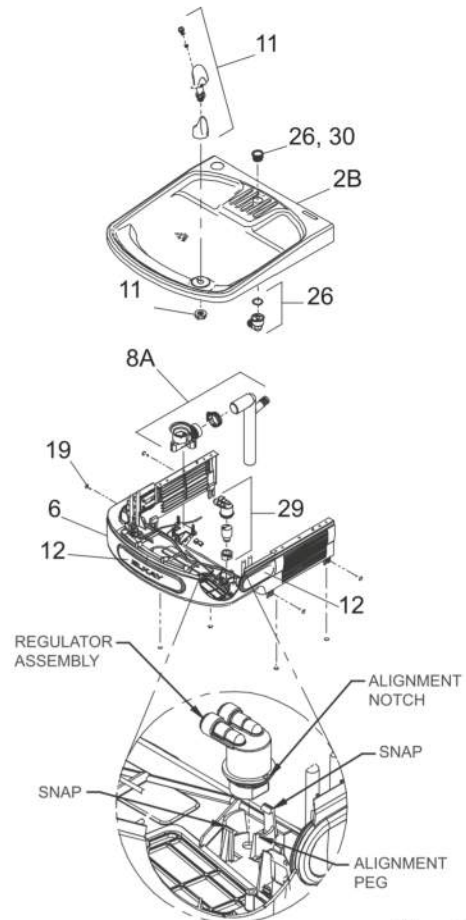


Fig. 6

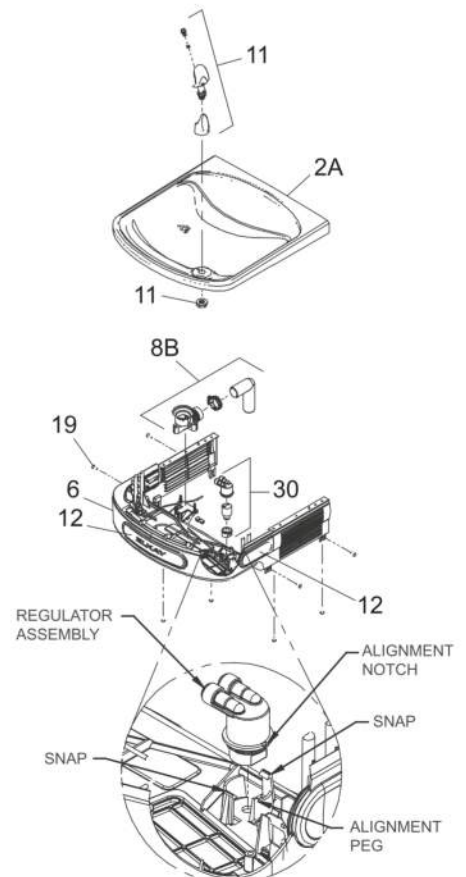


Fig. 7

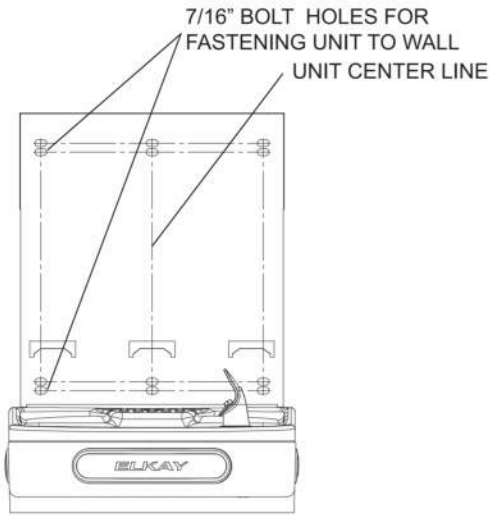


Fig. 8

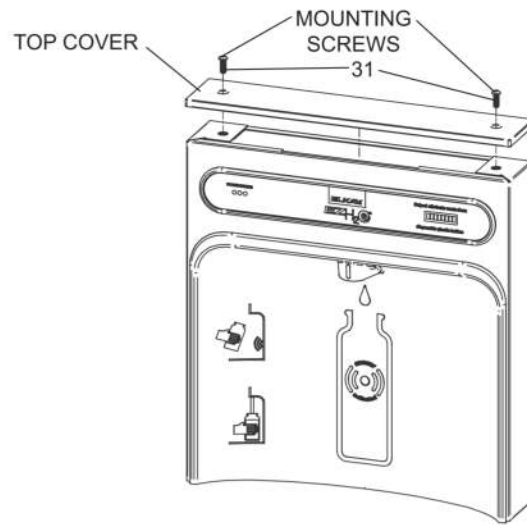


Fig. 9

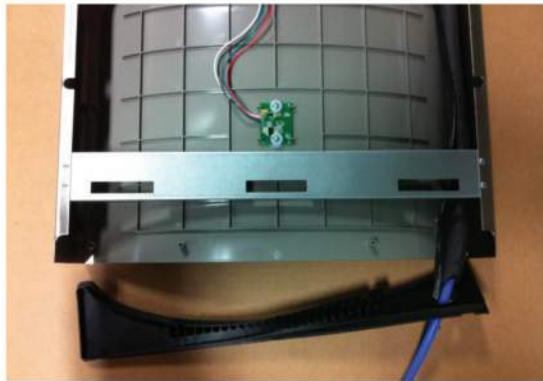


Fig. 10



Fig. 11

Bottle Filler Installation Instructions

- 1) Remove two (2) mounting screws with 5/32" Allen wrench holding top cover to Bottle Filler (See Fig. 9). Remove top cover. Note do not discard mounting screws, they will be needed to reinstall top cover.
- 2) Remove wall mounting plate from Bottle Filler. Place wall plate against wall on top of basin. Center the wall plate side to side with the basin. Mark the six (6) mounting holes with a pencil (See Fig. 2, 3, 4 or 5).
- 3) Remove wall mounting plate from wall. **NOTE:** Mounting plate **MUST** be supported securely. Add fixture support carrier if wall will not provide adequate support.
- 4) Install wall mounting plate to wall using six (6) 7/16" obround mounting holes (mounting bolts not included) (See Fig. 8). Use appropriate fasteners for your wall type.
- 5) Lay Bottle Filler on water cooler basin and cut insulation from tube even with bottom of gasket, remove this insulation from the 3/8" tube, but do not discard. Feed the power cord and waterline through the hole on top of water cooler. **NOTE:** To prevent scratching the basin place a towel or soft cloth over the entire basin when working above it.
- 6) Install gasket on bottom of bottle filler tower with gasket support bracket & (2) screws (See Fig. 11).
- 7) Feed power cord & 3/8" water line through hole in tower/basin gasket (See Fig. 10).
- 8) With the power cord, wire(s), and waterline through hole on top of water cooler place Bottle Filler on the three (3) angled tabs protruding from the wall mounting plate installed on wall. Make sure round boss in gasket fits in hole of basin.
- 9) Once Bottle Filler is installed on wall plate tabs, make sure the water line, wire(s) and power cord are installed properly. Inspect for leaks, fix all leaks before continuing. Push top of Bottle Filler toward wall and line up top cover two (2) holes.
- 10) Reinstall Top Cover on Bottle Filler (See Fig. 9) with two mounting screws from step 1 above. Caution, do not over tighten screws.
- 11) Install remaining tube insulation to the water line from bottle filler, connect Bottle Filler waterline inside of the water cooler by connecting the 3/8" water line to the tee.
- 12) Install filter cartridge, remove filter from carton, remove protective cap, attach filter to filter head by firmly inserting into head and rotating filter clockwise.
- 13) Turn water supply on and inspect for leaks. Fix all leaks before continuing.
- 14) Once unit has been inspected for leaks and any leaks found corrected, plug Bottle Filler and unit into wall. For correct Electrical Cord Routing and Connections (See Fig. 30) be sure to reinstall fuse to the circuit or switch the circuit breaker back to the "ON" position.
- 15) Once power is applied to Bottle Filler, the GREEN LED light should illuminate showing good filter status along with the LCD Bottle Counter.
- 16) Verify proper dispensing by placing cup, hand, or any opaque object in front of sensor area and verify water dispenses. **Note:** the first initial dispenses might have air in line which may cause a sputter. This will be eliminated once all air is purged from the line.
- 17) Once unit tests out, install Lower Panel back on water cooler(s). Unit is now ready for use.

BF11 - BF12 PROGRAM SETTING THE CONTROL BOARD

VERIFY CONTROL BOARD SOFTWARE

- 1) To verify the software program of the control board the unit will need to be shut down and restarted. The chiller (if present) does not need to be shut down and restarted.
- 2) The units lower panel must be open to access the power cord and wall outlet.
- 3) Shut down the unit by unplugging the power cord from the wall outlet or switching off the circuit breaker to the unit.
- 4) Restart the unit by plugging the power cord back into the wall outlet.
- 5) Upon start up, the bottle count display will show the software designation of BF11 or BF12.

ACCESSING THE PROGRAMMING BUTTON

- 1) To access the program button, remove the top cover of the bottle-filler. Remove the two (2) screws holding top cover to bottle-filler with a 5/32" allen wrench. Remove top cover. Do not discard mounting screws, they will be needed to reinstall the top cover after programming operations are completed. The programming button is located at the top right side of the unit on the control board.

NOTE: When applicable, there is also an alternate reset button located on the lower part of the water cooler. After removing the bottom cover, the reset button will be located on the left side of the cooler, mounted on the side panel support.

RESET THE FILTER MONITOR

- 1) Instructions apply to filtered units only.
- 2) Depress the program button for approximately 2 seconds until the display changes then release. The display will change and scroll through two messages:
"RST FLTR" – Reset Filter Monitor
"SETTINGS" – System Settings Sub Menu
If the program button is not pushed again the display will scroll through the two messages above for three cycles and then default back to bottle count and be back in run mode.
- 3) When the display changes to "RST FLTR", depress the button again. The display will change to show "FLTR =". Depress the button again and the display will show "FLTR =0"
- 4) The Green LED should be illuminated indicating that the visual filter monitor has been reset.

SETTING RANGE OF THE IR SENSOR WHERE APPLICABLE

- 1) Depress the program button for approximately 2 seconds until the display changes then release. The display will change and scroll through two messages:
"RST FLTR" – Reset Filter Status LED
"SETTINGS" – System Settings Sub Menu
If the program button is not pushed again the display will scroll through the two messages above for three cycles and then default back to bottle count and be back in run mode.
- 2) When the display changes to "SETTINGS", depress the button again. The display will change to show
"RNG SET" - Range set for IR sensor.
"UNIT TYP" - Type of unit (REFRIG or NON-RFRG)
"FLT SIZE" - Select filter capacity
"RST BCNT" - Reset bottle count
- 3) When display shows "RNG SET" push program button once the display will show current value (can be 1 – 10) e.g. "RNG = 3".
- 4) Once display shows current value push the program button to scroll through value of 1 – 10. Select the desired range setting, "1" being closest to sensor and "10" being farthest away.
- 5) Once range is selected allow approximately 4 seconds to pass and then the display will go back to bottle counter and be in run mode.
- 6) Test bottle filler by placing bottle or hand in front of sensor to make sure water is dispensed.

SETTING UNIT TYPE

- 1) Depress the program button for approximately 2 seconds until the display changes then release. The display will change and scroll through two messages:
"RST FLTR" – Reset Filter Status LED
"SETTINGS" – System Settings Sub Menu
If the program button is not pushed again the display will scroll through the two messages above for three cycles and then default back to bottle count and be back in run mode.

Continued from below:

- 2) When the display changes to "SETTINGS", depress the button again. The display will change to show
"RNG SET" - Range set for IR sensor.
"UNIT TYP" - Type of unit (REFRIG or NON-RFRG)
"FLT SIZE" - Select filter capacity
"RST BCNT" - Reset bottle count
- 3) When display shows "UNIT TYPE" push program button once the display will show current value. Can be REFRIG or NON-RFRG
- 4) Push button once to change value. Once value is selected the display will show the new value. (Can be REFRIG or NON-RFRG)
"REFRIG" - stands for refrigerated product. In this setting the flow rate is estimated at 1.0 gallon per minute.
"NON-RFRG" - stands for nonrefrigerated product. In this setting the flow rate is estimated at 1.5 gallons per minute. Both "REFRIG" and "NON-RFRG" simulate 1 bottle equal to 20 oz.
- 5) Allow approximately 4 seconds to pass and the display will return to bottle counter and be in run mode.

RESETTING BOTTLE COUNT

- 1) Depress the program button for approximately 2 seconds until the display changes then release. The display will change and scroll through two messages:
"RST FLTR" – Reset Filter Status LED
"SETTINGS" – System Settings Sub Menu
If the program button is not pushed again the display will scroll through the two messages above for three cycles and then default back to bottle count and be back in run mode.
- 2) When the display changes to "SETTINGS", depress the button again. The display will change to show:
"RNG SET" - Range set for IR sensor.
"UNIT TYP" - Type of unit (REFRIG or NON-RFRG)
"FLT SIZE" - Select filter capacity
"RST BCNT" - Reset bottle count
If the button is not pushed again the display will scroll through the four messages above for three cycles and return to run mode.
- 3) When display shows "RST BCNT" push program button once the display will show current value, e.g. "0033183".
- 4) Once display shows current value push the program button once more to reset back to 0. The display will show BTLCT = 0 for approximately 2 seconds and then return to run mode showing 00000000 bottles.
NOTE: Once the bottle count is reset to zero there is no way to return to the previous bottle count.
- 5) Testing the bottle counter:
REFRIG units: Place bottle or hand in front of sensor for approximately 9 seconds to see bottle counter count 00000001,
(This is based on filling a 20 oz. bottle).
NON-RFRG units: Place bottle or hand in front of sensor for approximately 6 seconds to see bottle counter count 00000001,
(This is based on filling a 20 oz bottle).

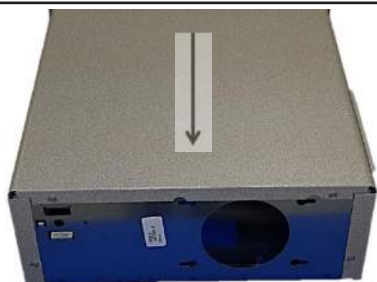
SETTING FILTER CAPACITY

- 1) Depress the program button for approximately 2 seconds until the display changes then release. The display will change and scroll through two messages:
"RST FLTR" – Reset Filter Status LED
"SETTINGS" – System Settings Sub Menu
If the program button is not pushed again the display will scroll through the two messages above for three cycles and then default back to bottle count and be back in run mode.
- 2) When the display changes to "SETTINGS", depress the button again. The display will change to show:
"RNG SET" - Range set for IR sensor.
"UNIT TYP" - Type of unit (REFRIG or NON-RFRG)
"FLT SIZE" - Select filter capacity
"RST BCNT" - Reset bottle count
If the button is not pushed again the display will scroll through the four messages above for three cycles and return to run mode.
- 3) When display shows "FLT SIZE" push program button once. The display will show current value. Can be 3000GAL or 6000GAL.
- 4) Push program button again to display the desired "FLT SIZE".
- 5) Allow approximately 4 seconds to pass and the display will return to bottle counter and be in run mode.

INSTRUCTIONS TO MOVE THE BOTTLE FILLER & BASIN TO THE LEFT SIDE (NON-REFRIGERATED) FOR ALTERNATE MOUNTING VERSATILE BI-LEVEL



Fig. 12



Using a 5/16" socket, remove the (4) screws from the bottom of each cooler to remove the wrappers.



Using a #T20 (6 point star bit), loosen the shroud screws. Both sides, both coolers.



ONLY move the filler panel and j-clip to the refrigerated (right) side if right side will be mounted 'high'.

Fig. 13

Refrigerated Cooler side:

Carefully lift and tip the shroud/basin assembly off of the cooler frame.

Only disconnect the (2) black wires coming from the shroud assembly that go to the solenoid valve and to the cold control.

Disconnect the water line at the solenoid valve. Reference (Fig. 27, Pg.17) for the operation of the quick connect fittings.



Fig. 14

Non-Refrigerated Cooler side:

Carefully lift and tip the shroud/basin assembly off of the cooler frame.

Only disconnect the (2) black wires coming from the shroud assembly going to the solenoid valve and to the power cord.

Disconnect the water line at the solenoid valve. Reference (See Fig. 27, Pg.17) for the operation of the quick connect fittings.

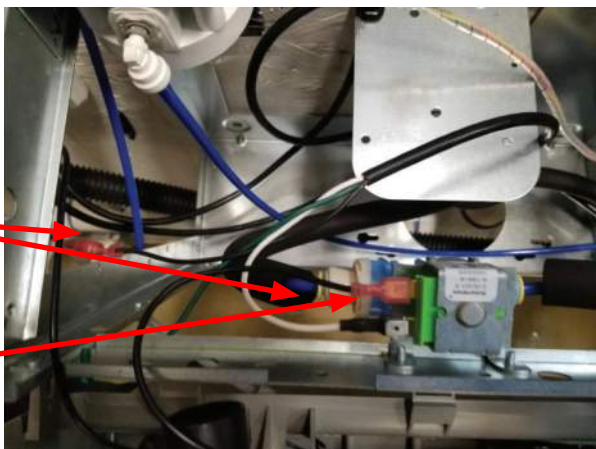


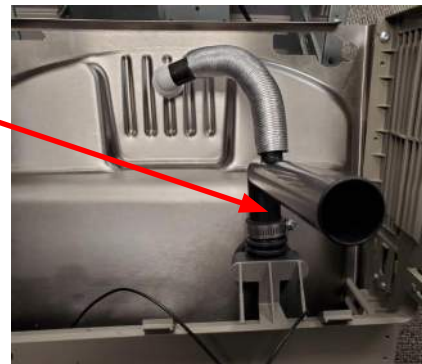
Fig. 15

INSTRUCTIONS CONTINUED.....**Swap drain parts in shroud:**

Loosen each hose clamp retaining the drain pieces.

Remove each drain piece and swap to other basin.

Tighten each hose clamp.

**Fig. 16****Refrigerated Cooler side:**

Carefully lift and tip the shroud/basin assembly off of the cooler frame.

Only disconnect the (2) black wires coming from the shroud assembly that go to the solenoid valve and to the cold control.

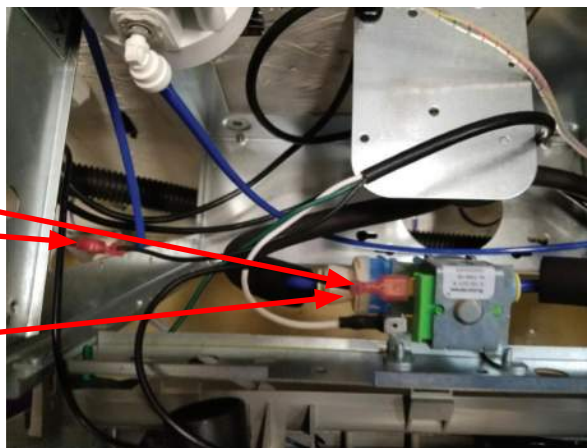
Disconnect the water line at the solenoid valve. Reference (Fig. 27, Pg.17) for the operation of the quick connect fittings.

**Fig. 17****Non-Refrigerated Cooler side:**

Carefully tip the shroud/basin assembly toward the cooler frame.

Connect one of the black wires to the solenoid valve and one to the power cord.

Re-connect the water line at the solenoid. Reference (See Fig. 27, Pg.17) for the operation of the quick connect fittings.

**Fig. 18**

Precautions need to be taken when replacing the Basin/shroud assembly:

- 1) Make sure all wires are inside frames so as not to become pinched.
- 2) Water line coming from bottle filter drain must be pulled down as not to interfere with the fan operation. The fan blade needs to spin freely.

**Fig. 19**

Using a #T20 (6 point star bit), tighten the shroud screws. Both sides, both coolers, being careful not to overtighten.

INSTALL WRAPPERS & TRIM STRIPS PER PAGE 13

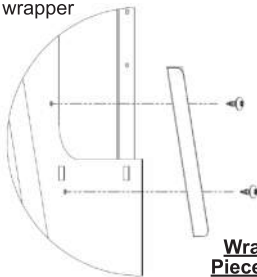
SEE PAGE 14 FOR PLUMBING DIAGRAMS

Versatile Wrapper and Trim Kit Installation Instructions

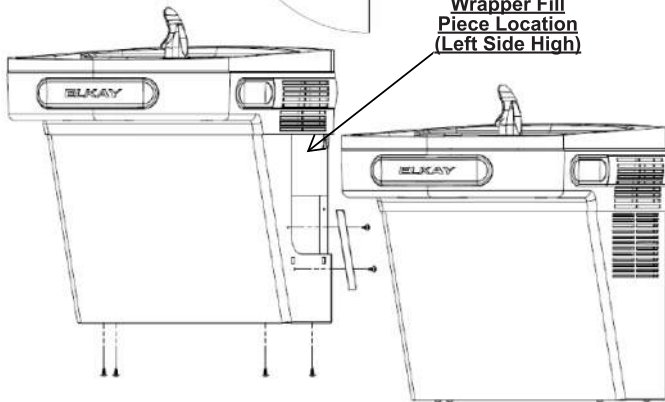
Left Hand Wrapper

(High Side)

- 1) Remove existing wrapper by removing the (4) screws from bottom.
- 2) Screw trim piece to wrapper with (2) screws (provided)
- 3) Re-install wrapper with (4) screws.
- 4) Dispose of unused cover plate.



Wrapper Fill Piece Location (Left Side High)



Right Hand Wrapper

(Low Side)

- 1) Remove existing wrapper by removing the (4) screws from bottom.
- 2) Clip cover plate, sliding until plate sits flush with the wall.
- 3) Re-install wrapper with (4) screws.
- 4) Dispose of unused trim piece.

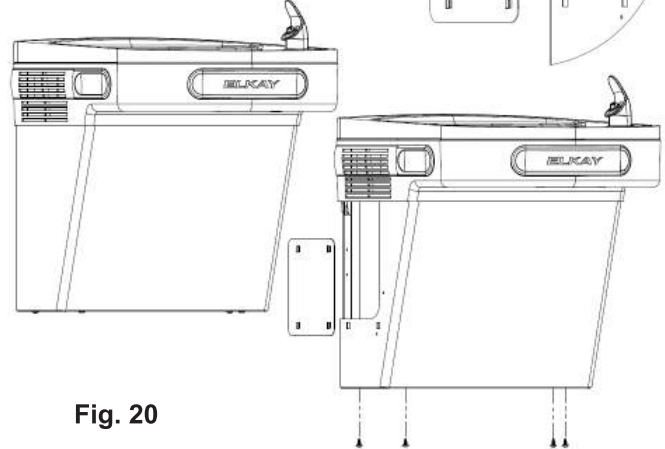
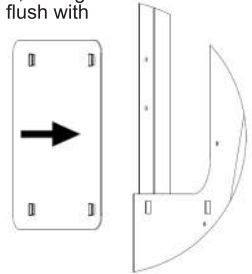
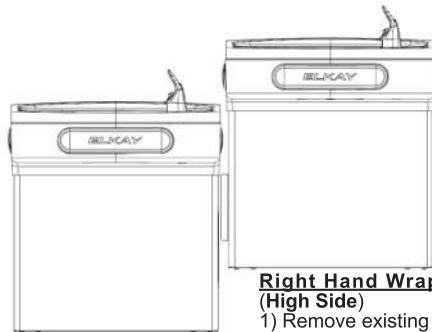
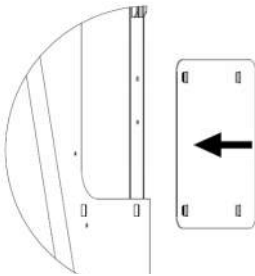


Fig. 20

Left Hand Wrapper

(Low Side)

- 1) Remove existing wrapper by removing the (4) screws from bottom.
- 2) Clip cover plate, sliding until plate sits flush with the wall.
- 3) Re-install wrapper with (4) screws.
- 4) Dispose of unused trim piece.



Right Hand Wrapper

(High Side)

- 1) Remove existing wrapper by removing the (4) screws from bottom.
- 2) Screw trim piece to wrapper with (2) screws (provided)
- 3) Re-install wrapper with (4) screws.
- 4) Dispose of unused cover plate.

Wrapper Fill Piece Location (Right Side High)

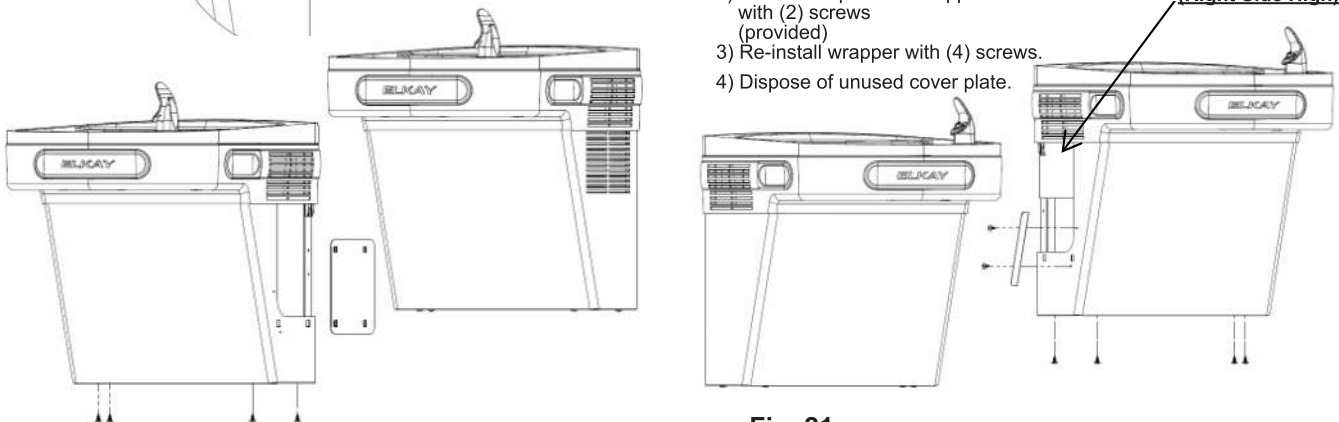


Fig. 21

PLUMBING DIAGRAMS VERSATILE BI-LEVEL

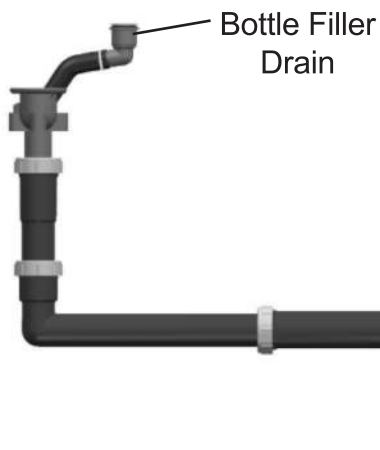
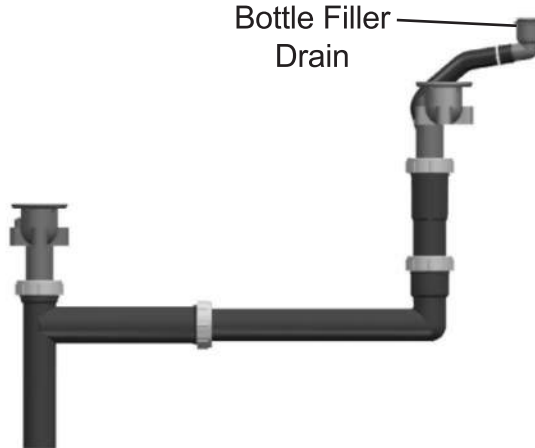
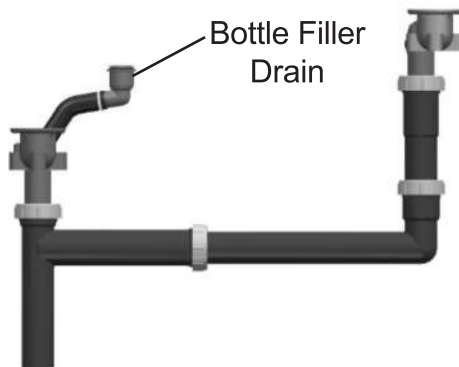
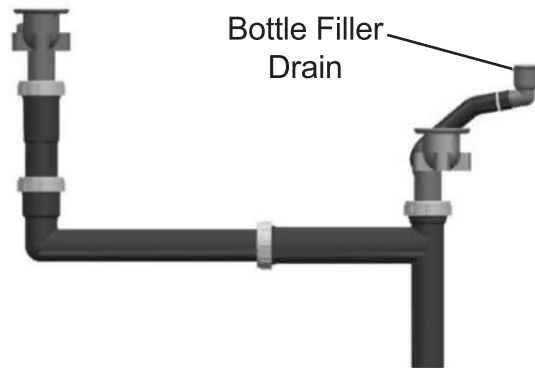
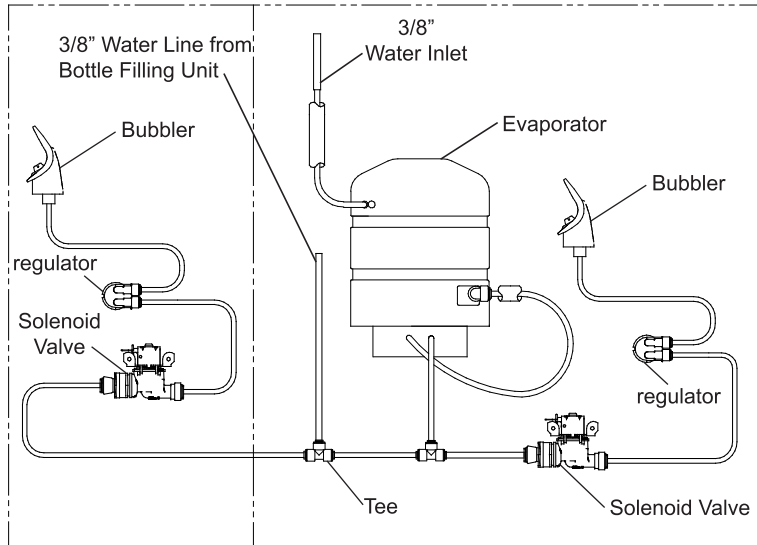


Fig. 22

PLUMBING DIAGRAMS FOR EZ BI-LEVEL COOLERS

L.H. Non-Refrig unit

R.H. Refrig. unit



Standard EZ Bi-Level Pressurized Plumbing Diagram

EZ Bi-Level Plumbing Diagram after Filter Installation & Bottle Filler Water Line Addition

L.H. Non-Refrig unit

R.H. Refrig. unit

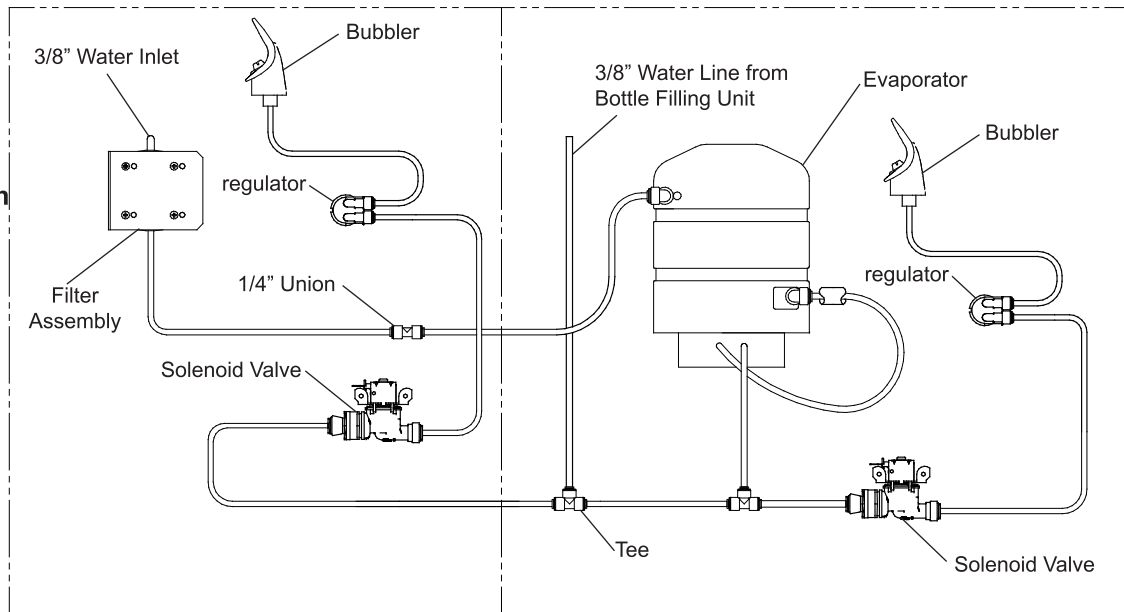


Fig. 23

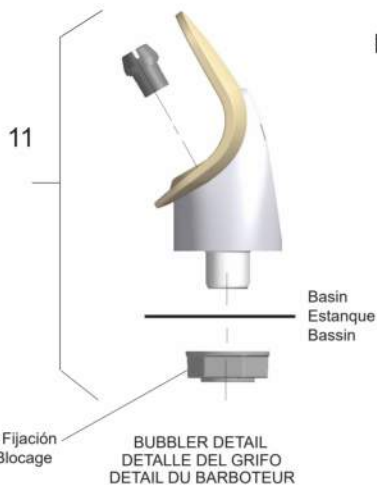


Fig. 24

NOTE:

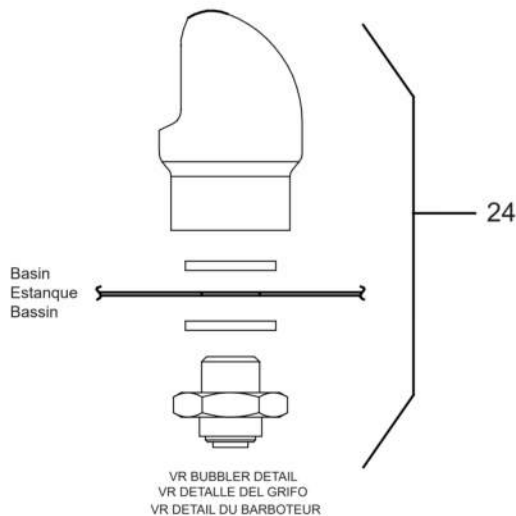
When installing replacement bubbler and pedestal, tighten nut only to hold parts snug in position. Do Not Overtighten.

NOTA:

Al instalar el grifo y pedestal de reemplazo, apriete la tuerca únicamente para mantener las piezas en una posición ajustada. No debe apretarse demasiado.

REMARQUE:

Lors de l'installation du barboteur de remplacement ou du socle, serez la vis afin de maintenir les éléments en place. Ne Pas Serrer Trop Fortement.



24

220V PARTS LIST/ 220V LISTA DE PIEZAS/ 220V LISTE DES PIÈCES

ITEM NO.	PART NO.	DESCRIPTION	DESCRIPCIÓN	DESCRIPTION
10	1000004575	Kit - Solenoid Valve/Regulator Assy	Kit - Montaje del Regulador/Válvula Solenoide	Kit - Solénoïde de la Vanne/Régulateur
*4	1000002147	Compressor Serv. Pak (220v/50Hz)	Compresor Paquete de servicio (220v/50Hz)	Kit d'Entretien du Compresseur (220v/50Hz)
	1000002146	Compressor Serv. Pak (220v/60Hz)	Compresor Paquete de servicio (220v/60Hz)	Kit d'Entretien du Compresseur (220v/60Hz)
15	0000000245	Kit - Fan Motor Assy/Blade/Motor/Shroud/ Screws/Nut (220v-50Hz/60Hz)	Kit - Ventilador Motor Montaje/Hoja/Motor/ Cubierta/Tornillos/Tuerca (220v-50Hz/60Hz)	Kit - Ventilateur Moteur Assemblée/Lame/Moteur/ Cache/Vis/Écrou (220v-50Hz/60Hz)
20	98751C	Kit - /Relay/Cvr/Overload (220v/50Hz)	Kit - relé/sobrecarga/cubierta (220v/50Hz)	Kit-relais/surcharge/couverture (220v/50Hz)
	98752C	Kit - Relay/Cvr/Overload (220v/60Hz)	Kit - relé/sobrecarga/cubierta (220v/60Hz)	Kit-relais/surcharge/couverture (220v/60Hz)
29	36066C	Internal Power Cord	Cable de alimentación interno	Cordon d'Alimentation interne
	36067C	Internal Power Cord Non-Refrigerated	Cable de alimentación interno L/R	Cordon d'Alimentation interne L/R
NS	36004C	Jumper Wire	Puente de alambre	Fil de raccordement
NS	28030C	Brkt - Power Inlet	Soporte - Entrada De Eléctrico	Support - Entrée d'alimentation
NS	35826C	Inlet Power	Entrada De Eléctrico	Entrée d'alimentation
NS	36357C	Split Snap Bushing	Buje rápido partido	Douille instantanée fendue
NS	36300C	Jumper Wire (Yellow)	Cable - Puente (Amarillo)	Câble - Cavalier (Jaune)

NS = NOT SHOWN

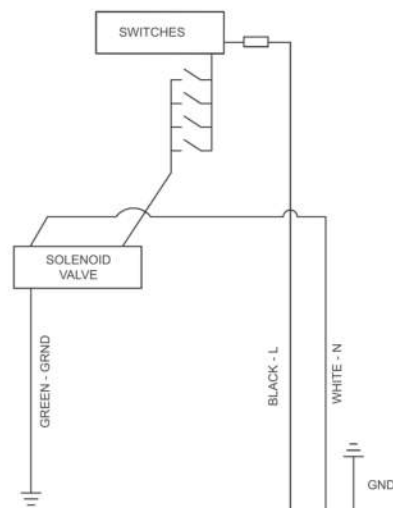


Fig. 25

115V Non-Refrigerated Wiring Diagram
Diagrama de cableado no refrigerados de 115 voltios
schéma de câblage non réfrigéré de 115 volts

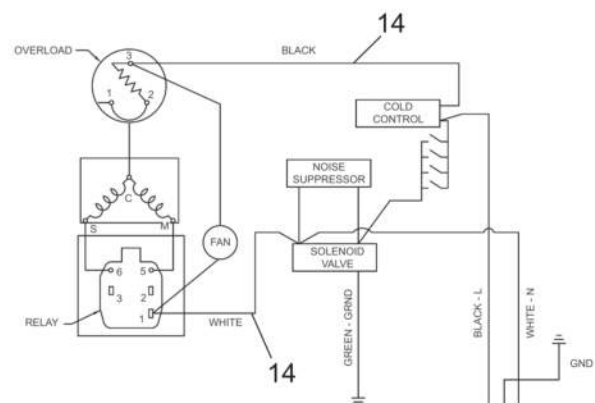


Fig. 26

115V Refrigerated Wiring Diagram
Diagrama de cableado refrigerados de 115 voltios
Schéma frigorifique de 115 volts

OPERATION OF QUICK CONNECT FITTINGS

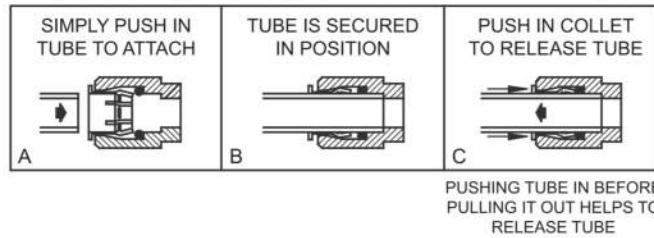


Fig. 27

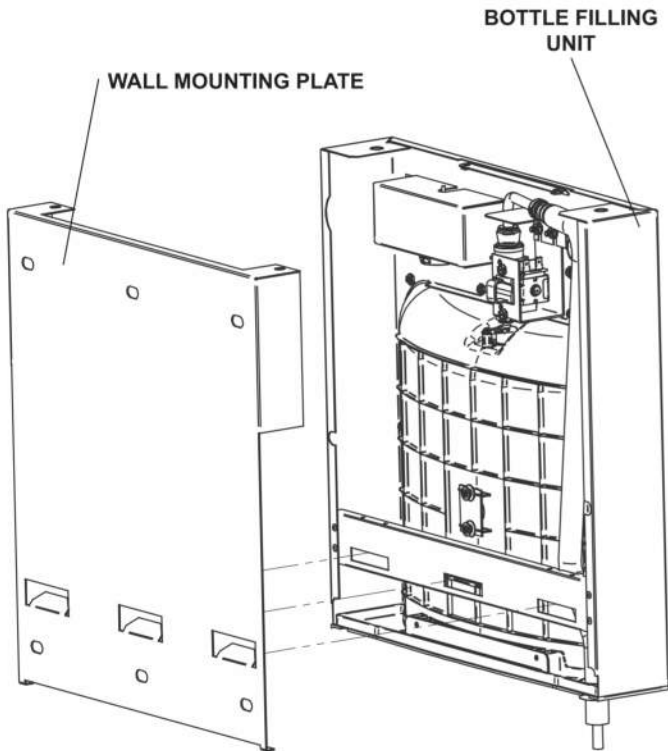


Fig. 28

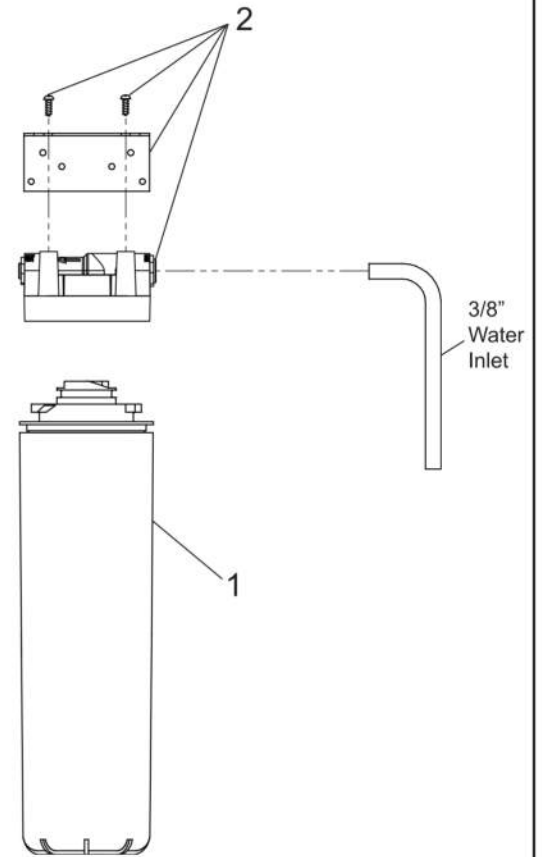
Filter Head Assembly
used after 01/01/2021

Fig. 29

WATERSENTRY® PLUS Filter Detail

Detalle WATERSENTRY® Filtro

Description WATERSENTRY® Filtrage

FILTER PARTS LIST			LISTA DE PIEZAS DEL FILTRO	LISTE DES PIÈCES DU FILTRE
ITEM NO.	PART NO.	DESCRIPTION	DESCRIPCIÓN	DESCRIPTION
1	51300C	Filter Assy-3000 Gal.	Ensamblado del Filtro-3000 Galón	Ens. filtre-3000 Gallon
2	0000000746	Assy-Filter & Bracket includes Fitr Head/Mtg Bkt/ John Guest Figs/Screws	Conjunto del Filtro y Soporte, Incluye Filtro Soporte/John Guest Guarniciones/Tornillos de Montaje de Cabeza	Assemblée-Filtre et Support Inclut Filtre/Montage Support/ John Guest/Vis à Tête

Standard Rough-In Primary Outlet Location



Standard Rough-In Alternate Outlet Location



Reverse Rough-In Primary Outlet Location



Reverse Rough-In Alternate Outlet Location



Fig. 30

ITEM NO.	PART NO.	DESCRIPTION	DESCRIPCIÓN	DESCRIPTION
1	28401C	Hanger Bracket	Soporte Colgante	Support de Suspension
2A	55001109	Basin - Stainless Steel	Estanque - Acero Inoxidable	Basin - Inox
2B	0000001337	Basin - Stainless Steel (BF)	Estanque - Acero Inoxidable (BF)	Basin - Inox (BF)
3	36216C	Wiring - Front/Side PushBar	Barra de Empuje de Cableado-Frontal/Lateral	Barre Anti-Panique Câblage Avant/Côté
*4	36322C	Compr - Service Pak 115V	Compresor Paquete de Servicio 115V	Kit d'Entretien du Compresseur
5	56092C	Tube - Poly (Cut To Length)	Tubo - Poli (Corte a la longitud)	Tube - Polyéthylène (Couper à la longueur)
6	56229C	Assy - Shroud - Upper (Front Side Push)	Cubierta - Superior (Frontal Lateral Presión)	Enveloppe de Protection - Supérieure (Face Laterel
7	66703C	Drier	Secador	Poussoir) Déshydrateur
8A	98900C	Kit - Drain Replacement EZTL8 (Brkt, Tube, Ftg, Clamp)	Kit - Reemplazo de Drenaje (EZTL8)/Soporte/Tubo/ Guarnición de Tubo/Abrazadera	Kit - Remplacement de Drain (EZTL)/Support/Tube/ Raccord de Tube/Bride Pour Tuyau
8B	97969C	Kit - Drain Replacement EZTLD (BF) (Brkt, Tube, Ftg, Clamp)	Kit - Reemplazo de Drenaje (EZTLD)/Soporte/Tubo/ Guarnición de Tubo/Abrazadera	Kit - Remplacement de Drain (EZTLD)/Support/Tube/ Raccord de Tube/Bride Pour Tuyau
9	55996C	In-Line Strainer	En Line Strainer	Filtre à eau en ligne
10	1000004572	Kit - Solenoid Valve/Regulator Assy	Kit - Montaje del Regulador/Válvula Solenoide	Kit - Solénoide de la Vanne/Régulateur
11	56073C	Kit - Flexi Bubbler/"O"-Ring/Nut	Kit - Flexi Borboteador/Oring/Teurca	Kit - Flexi Barboteur/Oring/Noix
12	98734C	Kit - Pushbar (Front/Side) EZSTL	Kit - Manillar (Frontal/Lateral) EZSTL	Kit - Barre de Poussée (Avant/Côté) EZSTL
	1000001600	Kit - Pushbar (Front) EZTL	Kit - Manillar (Frontal) EZSTL	Kit - Barre de Poussée (Avant) EZSTL
13	98773C	Kit - Cold Control/Screws	Kit - Control del Enfriamiento/Tornillo	Kit - Contrôle de Refroidissement/Vis
14	98774C	Kit - Internal Wiring/Pwr Cord/Black and White Jumper Wires	Kit - Cableado Interno/Cable/ Negro Y Blanco Puente	Kit - Câblage Interne/Câble d'Alimentation/Noir et Fils de Raccordement Blanc
15	98775C	Kit - Fan Motor Assy/Blade/Mtr/ Shroud/Screws/Nut	Kit - Ventilador Motor Montaje/Hoja/Motor/ Cubierta/Tornillos/Tuerca	Kit - Ventilateur Moteur Assemblée/Lame/Moteur/ Cache/Vis/Ecrou
16	98776C	Kit - Condenser/Drier	Kit - Condensador/Secador	Kit - Condenseur/Séchoir
17	98777C	Kit- Compr Mtg Hdwe/Grommets/ Clips/Studs	Kit - Matériel de Montaje Compresor/Ojal/ Pinza/Taquete	Kit - Montage du Compresseur materiel/Joint d'étanchéité/Clip/Goujon
18	98778C	Kit - Heat/Drier	Kit - Intercambiador Térmico/Secador	Kit - Echangeur Thermique/Déshydrateur
19	98898C	Kit - Hardware (EZ)	Kit - Juego de Accesorios (EZ)	Kit - De Visserie (EZ)
20	0000000238	Kit - Relay/Overload/Cover	Kit - Relé/Sobrecarga/Cubierta	Kit - Relais/Surcharge/Relais Coiffe
21	98724C	Kit - Evaporator Assembly	Montaje del Kit-Evaporador	Assemblée de L'évaporateur en Kit
22	1000002062	Kit - Tee 1/4" x 1/4" x 3/8" (3 Pack)	Kit - Tee 1/4" x 1/4" x 3/8" (Paquete de 3)	Kit - Tee 1/4" x 1/4" x 3/8" (Pack de 3)
23	1000001602	Kit - 75583C Elbow 5/16" x 1/4" (3 Pack)	Kit - 75583C Elbow 5/16" x 1/4" (Paquete de 3)	Kit - 75583C Elbow 5/16" x 1/4" (Pack de 3)
24	97446C	Kit - Vandal Resistant Bubbler (VR)	Kit - Vandal Resistente pelele (VR)	Kit - Vandal barboteur résistant (VR)
25	1000001994	Kit - 70682C 1/4" Tee (3 Pack)	Kit - 70682C 1/4" Tee (paquete de 3)	Kit - 70682C 1/4" Tee (Pack de 3)
26	1000001812	Kit - Bottle Filler Drain	Kit - de Drenaje de Llenada de la Botella	Kit - de Remplissage de Bouteille de Vidange
27	1000004447	Wasteline Drain Assy	Malgaste la Asamblea de la Linea EZTL(R)	Gaspiller TL (R) d'Assemblée de Ligne
28	1000006146	Power Cord Non-Refrigerated	Cable eléctrico L/R	Cordon d'Alimentation L/R
	36287C	Power Cord EZTL8	Cable eléctrico EZTL8	Cordon d'Alimentation EZTL8
29	1000004564	Kit - Regulator w/Holder & Nut	Kit - regulador con soporte y la tuerca	Kit - régulateur avec support et écrou
30	0000001339	Ferrule-Drain (Bottle Filler)	Férula-Drenaje (Llenadora de botellas)	Virole-Drain (remplisseur de bouteille)
NS	1000000888	Kit - EZTL Wrapper/Serv Label - Stainless (R)	Kit - envoltura de acero inoxidable (R)	Enveloppe extérieure kit-inox (R)
	1000000944	Kit - EZTL Wrapper/Serv Label - Light Grey (R)	Kit de luz gris envoltura (R)	Kit-gris de Cape extérieure (R)
NS	1000000758	Kit - EZTLD Wrapper/Serv Label - Stainless (L)	Envoltura exterior kit-acero inoxidable sin rejillas (L)	Acier inoxydable-kit Cape extérieure sans persiennes (L)
	1000000759	Kit - EZTLD Wrapper/Serv Label - Light Grey (L)	Gris luz kit envoltura exterior sin rejillas (L)	Enveloppe extérieure kit-gris sans persiennes (L)

NS = NOT SHOWN

***INCLUDES RELAY & OVERLOAD. IF UNDER WARRANTY, REPLACE WITH SAME COMPRESSOR USED IN ORIGINAL ASSEMBLY.**

NOTE: All correspondence pertaining to any of the above water coolers or orders for repair parts MUST include Model No. and Serial No. of cooler, name and part number of replacement part.

***INCLUYE RELÉ Y SOBRECARGA. SI ESTÁ BAJO GARANTÍA, REEMPLACE CON EL MISMO COMPRESOR USADO EN EL ENSAMBLADO INICIAL.**

NOTA: Toda la correspondencia relacionada con el enfriador de agua anterior o con una orden de reparación piezas DEBERÁ incluir el número de modelo y número de serie del enfriador, el nombre y número de pieza de la pieza de repuesto.

***COMPREND RELAIS ET SURCHARGE. SI SOUS GARANTIE, REMPLACEZ AVEC LE MÊME SURPRESSEUR QUE CELUI UTILISÉ ORIGINALEMENT.**

NOTE: Toute correspondance au sujet des refroidisseurs d'eau courante ou toute commande de pièce de rechange DOIT inclure le numéro de modèle et le numéro de série du refroidisseur ainsi que le nom et le numéro de pièce à remplacer.

BOTTLE FILLER REPLACEMENT PART KITS

ITEM NO.	PART NO.	DESCRIPTION	DESCRIPCIÓN	DESCRIPTION
NS	98543C	Kit - Electrical Package 115V	Paquete Kit - Eléctrico 115V	Forfait Kit - Electriqueso 115V
NS	98631C	Kit - Electrical Package 220V	Paquete Kit - Eléctrico 220V	Forfait Kit - Electriqueso 220V
NS	98544C	Kit - IR Sensor	Sensor Kit - IR	Kit - Rcepteur IR
NS	1000004573	Kit - BF Solenoid Valve Replacement 115V	Reemplazo de la Válvula de Solenoide Kit 115V	Remplacement de la Valve Solénoïde - Kit 115V
NS	1000004574	Kit - BF Solenoid Valve Replacement 220V	Reemplazo de la Válvula de Solenoide Kit 220V	Remplacement de la Valve Solénoïde - Kit 220V
NS	98546C	Kit - Aerator Replacement	Reemplazo Kit - Aireador	Remplacement du Kit - Aérateur
31	98547C	Kit - Top Cover Replacement	Kit - Tapa Cubierta Reemplazo	Remplacement du Kit - Top Couvercle
NS	98549C	Kit - Hardware & Waterway Parts	Piezas del Kit - De Hardware y Por Vía Navegable	Pièces Kit - Matériel et Voie Navigable
NS	98551C	Kit - Filter Mounting Cover	Cubierta del Filtro de Kit - De Montaje	Couvercle de Filtre - Kit Montage
NS	98552C	Kit - Retro Filter Mounting	Montaje de Filtro Kit - Retro	Montage de Retro - Kit Filtre
NS	1000001813	Kit - Tower/Basin Gasket	Kit - Torre/Cuenca Junta	Kit - Tour/Collecteur

NS = NOT SHOWN

FOR PARTS, CONTACT YOUR LOCAL DISTRIBUTOR OR CALL 1.800.834.4816
PARA PIEZAS, CONTACTE A SU DISTRIBUIDOR LOCAL O LLAME AL 1.800.834.4816
POUR OBTENIR DES PIÈCES, CONTACTEZ VOTRE DISTRIBUTEUR LOCAL OU COMPOSEZ LE 1.800.834.4816

REPAIR SERVICE INFORMATION TOLL FREE NUMBER 1.800.260.6640
NÚMERO GRATIS DE SERVICIO 1.800.260.6640
INFORMATIONS POUR LE SERVICE PAR NUMERO SANS FRAIS 1.800.260.6640

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TECHNICAL SPECIFICATIONS

CONNECTIONS



SHOWER



SINK



DISHWASHER



LAUNDRY

APPLICATION



RESIDENTIAL

Saniswift® Drain Pump



Example of installation. Follow local plumbing codes for actual install.

The **Saniswift drain pump** is used to pump gray water away from a variety of fixtures in **residential applications**. The system is able to discharge the waste up to **14 feet vertical and/or 140 feet horizontal**.

- Discharges the waste through either a 1", 1-1/4" or 1-1/2" rigid pipe. A non-return valve is included on the discharge fitting assembly provided with the system.
- Has been designed with a 1-1/2" vent connection on top of the lid. All plumbing codes require connection to a vent system. Either inlet located on top of the housing can be used for the vent or as an inlet. Please note that the vent system should be a two-way air vent as air needs to freely flow both ways. Note: The use of mechanical vents, air admittance valves or similar devices is not permitted.
- Discharges **gray water from a kitchen sink, shower, dishwasher, washing machine** (indirect connection via laundry sink). The gray water will drain into the system **via three 1-1/2" inlets**, two low inlets (with built-in check valves) on either side of the housing and one on top of the enclosure.



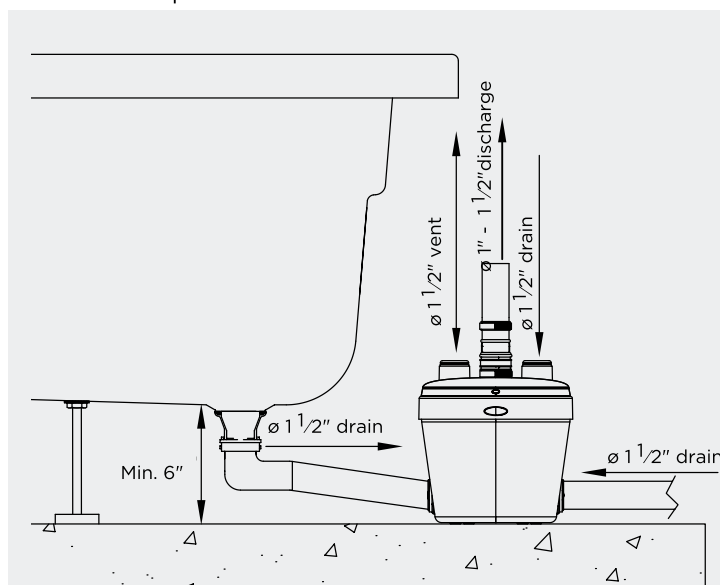
ResidentialGrade

PUMPING DISTANCE

14 Ft



140 Ft

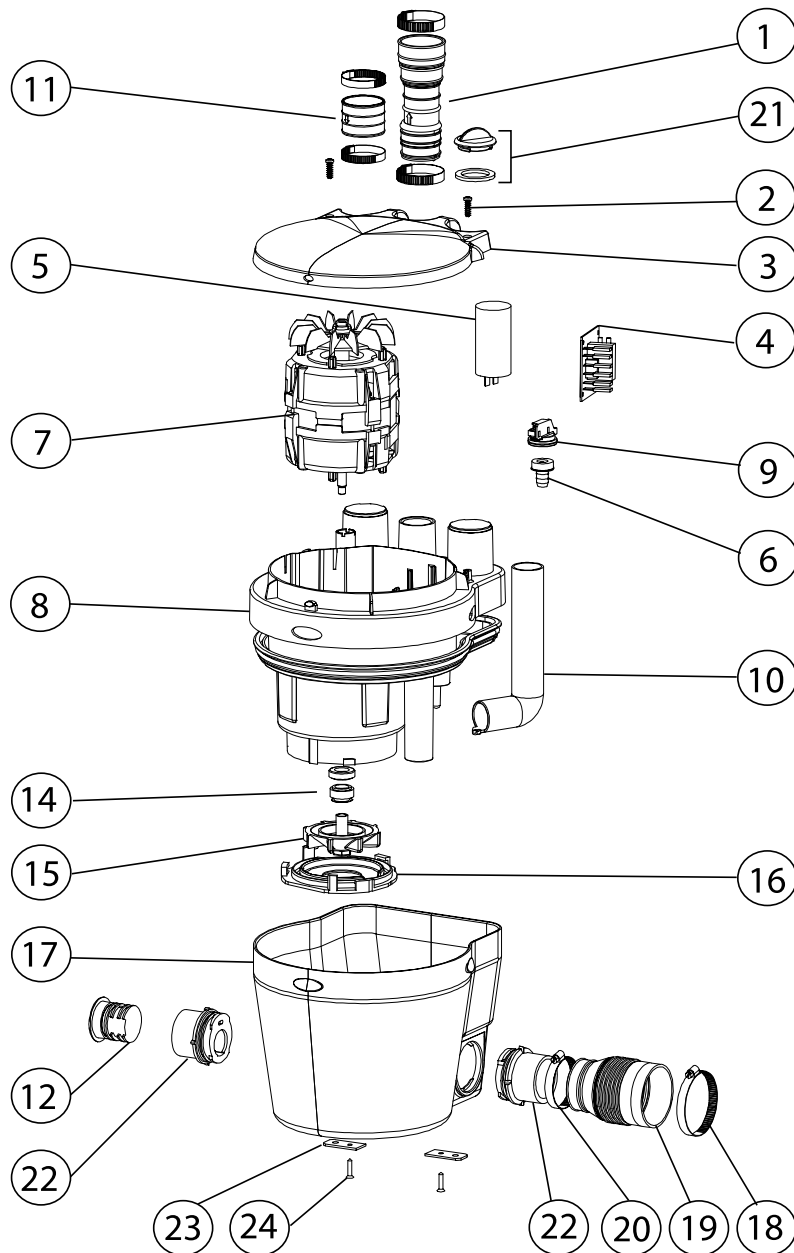


AN EASY SOLUTION FOR A REMOTE LAUNDRY ROOM INSTALLATION OR FOR ANY GRAY WATER APPLICATION

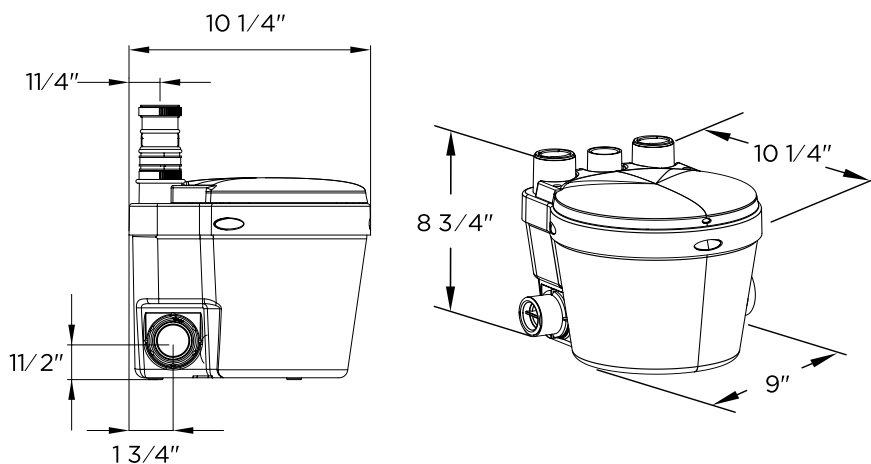
Powerful and economical with a compact design and multiple inlets which makes it perfect for installations anywhere you can imagine. The perfect quiet solution **designed with low drain inlets** which facilitate the installation of a shower in **residential applications**. Built-in check valves prevent any backup into the connecting fixtures.

TECHNICAL SPECIFICATIONS

PLEASE CALL US TOLL-FREE AT
800-571-8191 (US) / 800-363-5874 (CDN)
TO PURCHASE PARTS REFERENCED BELOW



DIMENSIONAL DRAWINGS



An easy and inexpensive solution for gray water applications!

TECHNICAL SPECIFICATIONS

Pump type:

Drain pump

Electrical:

120 V - 60 Hz / 4.5 Amps (Max)*

Motor:

0.3 HP oil-filled thermally protected motor

Capacitor rating:

30 microfarad

Operating Temperature:

140°F

Power cord length:

48 inches

Noise level:

≤ 44 dBA (Lp) (measured at 3 ft.)

Discharge pipe diameter:

1" - 1-1/2"

Discharge rate at 14 ft:

18 GPM

Discharge rate at 3 ft:

24 GPM

Shut-off head:

25 ft.

Normal running time:

3-5 seconds (Short bursts)

Capacity:

2.75 gallons / 10.4 liters

Inlets:

1-1/2" (sides), 1-1/2" vent (top)

Method of activation:

pressure switch/ circuit board

Shower/bathtub base height:

6" min

Weight:

13 lbs / 5.9 kg

Certifying agencies:

CSA (IPC, NSPC)

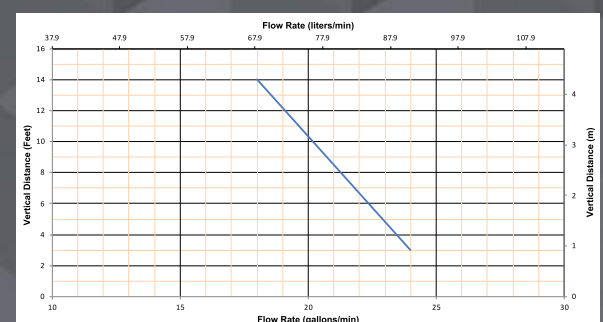
Recommended accessories:

Descaler

Connections:

Sink, shower, washing machine (indirect), dishwasher, laundry sink, etc.

* Measured using 1" discharge. Information will vary once the discharge size is increased. Consult with factory.





Vault™
25" top-/undermount single-bowl kitchen sink
K-3894-4

Features

- 27" (686 mm) minimum base cabinet width.
- Single bowl.
- 6" (152 mm) depth.
- Rear drain placement increases vanity cabinet storage space underneath sink.
- Includes installation hardware.

Material

- Handcrafted from 18-gauge stainless steel.
- Premium 18-gauge stainless steel.

Installation

- For undermount installation, countertop thickness cannot be greater than 1" (25 mm) for ADA compliance.
- Top-mount or undermount.

Recommended Products/Accessories

- K-8801 Sink drain and strainer with tailpiece
- K-8799 Sink drain and strainer basket
- K-23726 Drain treatment
- K-23729 Stainless steel cleaner

Optional Products/Accessories

- 1177161
- K-11352 Disposal Flange with Stopper

Included Components

- Additional Components:
- 1130570



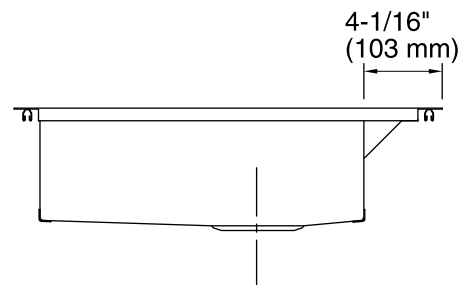
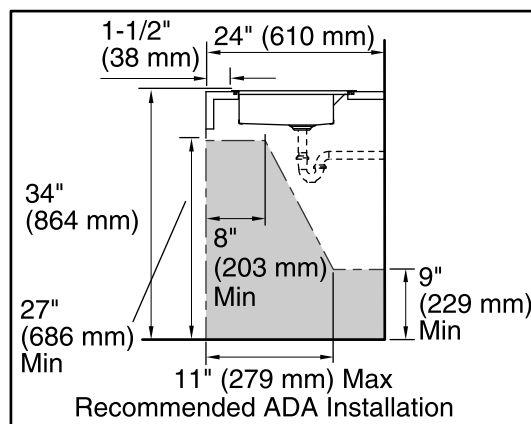
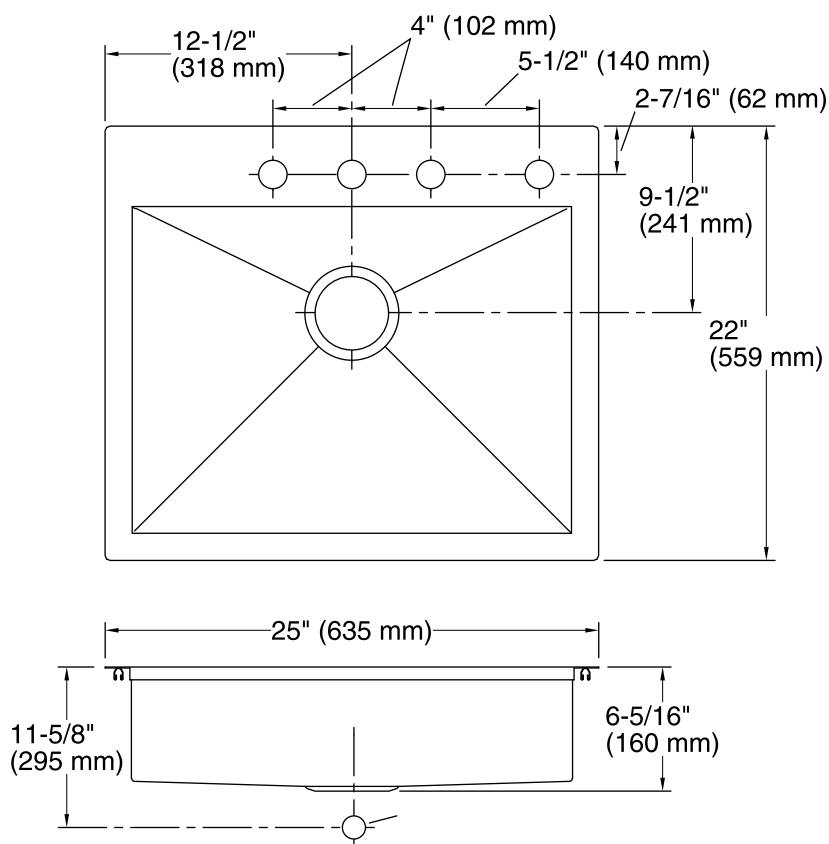
ADA

Codes/Standards

ASME A112.19.3/CSA B45.4
ADA
ICC/ANSI A117.1

KOHLER® One-Year Limited Warranty

See website for detailed warranty information.



Technical Information

All product dimensions are nominal.

Bowl configuration:	Single
Installation:	Top-mount, Undermount
Center(s):	4
Min. base cabinet width:	27" (686 mm)
Bowl area (Only):	Length: 22-1/4" (565 mm) Width: 16-9/16" (420 mm) Bowl depth: 6" (152 mm) Water depth: 6" (152 mm)
Number of deck holes:	4
Faucet hole spacing:	4" (102 mm)
Faucet hole(s):	1-7/16" (37 mm)
Soap/Lotion hole:	1-7/16" (37 mm)
Drain hole:	3-3/4" (94 mm)
Template:	1130822-7, required, included

Notes

Install this product according to the installation instructions.

Hardware Kit 1177161 needed for countertops with a 2-1/2" (64 mm) thickness or less.

For under-mount installation, counter top thickness can not be greater than 1" (25 mm) for ADA compliance.

ADA compliant when installed to the specific requirements of these regulations.

Features

- Matching side sprayer provides flexibility and convenience for cleaning and food prep.
- KOHLER ceramic disc valves exceed industry longevity standards for a lifetime of durable performance.
- Single lever handle is simple to use and makes adjusting water temperature easy.
- Temperature memory allows faucet to be turned on and off at the temperature set during prior usage.
- 1.5 gpm (5.7 lpm) maximum flow rate at 60 psi (4.14 bar).

Material

- Premium metal construction for durability and reliability.
- KOHLER finishes resist corrosion and tarnishing.

Installation

- Three-hole installation.
- Flexible supply lines simplify installation.

Recommended Products/Accessories

K-23723 Faucet cleaner

Optional Products/Accessories

1030920



ADA

CSA B651

Codes/Standards

ASME A112.18.1/CSA B125.1

NSF/ANSI 61

NSF/ANSI 372

All applicable US Federal and State material regulations

DOE - Energy Policy Act 1992

California Energy Commission (CEC)

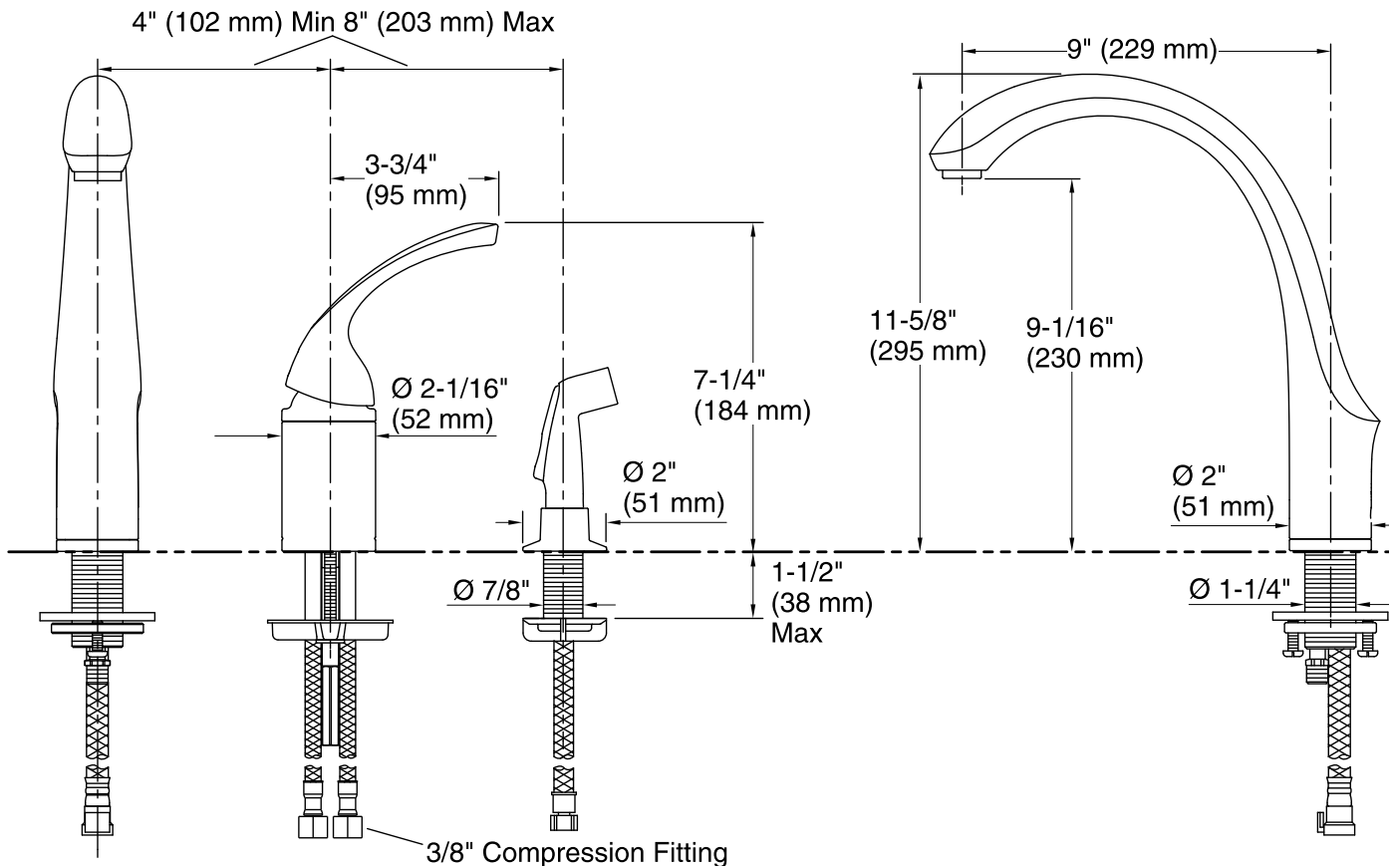
ADA

ICC/ANSI A117.1

CSA B651

KOHLER® Faucet Lifetime Limited Warranty

See website for detailed warranty information.



Technical Information

All product dimensions are nominal.

Spout:

Spout reach: 9-1/16" (230 mm)

Notes

Install this product according to the installation guide.

ADA complaint for faucet handles only.

ADA, CSA B651 compliant when installed to the specific requirements of these regulations.

STIEBEL ELTRON

Simply the Best

Commercial Application Point-of-Use Tankless Electric

Mini™ & Mini™-E | DHC Classic & DHC-E Classic

DHC Trend | DHC-E Trend & Plus | Tempra® Trend & Plus

- › On-demand, continuous, unlimited hot water
- › No venting required
- › Exclusive design prevents dry firing
- › Compact design saves space
- › 99% efficiency & no standby losses



The world leader in advanced
water heating technology since 1924



ISO 9001
CERTIFIED



Tested and certified by WQA
against NSF/ANSI/CAN 372
for lead free compliance.

800.582.8423

www.stiebel-eltron-usa.com



Direct Coil™ Technology

Our newest models, DHC Trend, DHC-E Trend, and DHC-E Plus incorporate our Direct Coil™ heating system. Stiebel Eltron's most advanced technology, our Direct Coil™ has proven worldwide to be exceptionally low-failure, including in our Mini™ water heaters, with outstanding added benefits.

The robust and trouble-free Direct Coil™ heating system is self-cleaning for superior limescale resistance, and includes added benefits of faster heat-up time, lower latent heat retention, and more.

Switchable models | Expanding on the well-received innovation of our DHC-E 8/10, the entire line of new Direct Coil™ models are switchable at installation to one of two power outputs. This provides extraordinary flexibility for an installation while simplifying model choice. Switching power outputs is as simple as changing a jumper.

Largest Point-of-Use with Exclusive Advanced Flow Control™ | In addition to now offering the largest point-of-use model available with 14.4 kW of power, the new Direct Coil™ DHC-E models are available in our Plus configuration.

The Direct Coil™ heating system in the DHC-E Plus models includes **Advanced Flow Control™**. Patented in Germany, and exclusive to Stiebel Eltron tankless heaters, **Advanced Flow Control™** has been a feature of our whole-house Tempra Plus models for years. If hot water demand exceeds working capacity, **Advanced Flow Control™** automatically maintains consistent temperatures by slightly reducing flow.

Now available in the DHC-E 8/10-2 Plus and DHC-E 12/15-2 Plus, **Advanced Flow Control™** allows installation of a single water heater to satisfy multiple sinks. A Direct Coil™ DHC-E Plus will provide the correct temperature water at multiple sinks at the same time, without delivering colder water if the system is overloaded by one too many taps being opened.

Superior, Reliable & Energy Saving Performance | In addition to the special benefits of Direct Coil™ technology, the new models include all the benefits that are part of the entire Stiebel Eltron electric tankless line.

Ideal for both residential and commercial point-of-use sink applications, these new Direct Coil™ models heat water endlessly on demand at 99% efficiency.

They have no stand-by energy losses because they do not store hot water like tank water heaters. No venting is required and the compact European design can be installed with the unit visible.

Micro-processor control, flow sensor, and our newly patented air detection system completely eliminate dry-fire. And of course these new models have a safety high-limit with a manual control. Activation rate for all new Direct Coil™ models is a low 0.264 GPM.

Model-specific features | Intended for trouble-free installation without user tampering, DHC Trend models have no screen. Maximum temperature output can be set internally, but they should be sized by choosing the correct power output for the particular flow rate and temperature rise needed for an installation.

DHC-E Trend and DHC-E Plus are equipped with digital display screens. Desired output temperature is easily set using the dial and display on the cover. These models also have electronic features that include setting maximum output temperature and a child safety lock. Plus models include additional features including preset temperature memory plus

display of flow rate and energy usage and savings.

Tempra® Trend and Tempra® Plus, our higher-capacity single-phase copper element water heaters, are also equipped with digital display screens and easily set output temperature using the dial and display on the cover. Both Tempra® models also have electronic features including setting maximum output temperature and a child safety lock. **Tempra® Plus** features also include preset temperature memory plus display of flow rate and energy usage and savings in addition to the industry-exclusive **Advanced Flow Control™** system.

While these models excel at supplying water at the desired constant temperature, the amount of hot water and its temperature depends on the incoming cold-water temperature and the size of the model installed. The correct model size should be chosen using our Sizing Guide. As always, our renowned technical support department is available for advice.

Superior, Reliable & Energy Saving Performance | All Stiebel Eltron thermostatic electric tankless water heaters have flow and temperature sensors. Auto-modulation in these models ensures that heating elements are engaged

in stages, achieving desired water temperature with the lowest possible energy usage. In all thermostatic models, input and output water temperature and flow rate are continually monitored. This smart microprocessor Electronic Temperature Control technology ensures steady output at the set point temperature even as flow rates vary up or down. Tankless electric water heaters from other manufacturers don't maintain steady temperature as the incoming flow rate varies.

Sleek Design Fits in Anywhere | Due to their compact dimensions and no need for venting, these water heaters may be installed in areas where larger devices will not fit, and close to draw-off points to minimize piping runs. The attractive housings may be left unconcealed in many applications.

Code Compliance Made Easy | A water temperature required by code can simply be dialed

At the heart of Stiebel Eltron's most advanced and revolutionary Direct Coil™ heating system is a robust nichrome heating coil and a bullet-proof poly-amide composite heating chamber.



in on all electronic models. The accuracy of the water temperature is guaranteed by sophisticated electronics. The DHC-E Classic, Trend, and Plus models, and Tempra® models can supply up to 140°F (60°C) water when health codes call for it. They can also be set internally to limit output temperature to a maximum of 109°F (43°C) where scalding water is a hazard. When lower, non-scalding temperatures are needed, the advanced electronics of these models ensures what you set is what you get.

Mini™-E and DHC-E models have optional externally attached mixing valve assemblies for installations where UPC code compliance is a necessity. No need to worry about an internal mixing valve to go out of adjustment or wear out.



Copper models



Direct Coil™ models

Complete warranty online.

Superior Warranty & Superior Technical Support | Stiebel Eltron has an enviable track record of engineering excellence and product quality. The three-year parts warranty is unique in the industry. And our already long 7 year leak warranty for copper heating models has been extended to 10 years for all Direct Coil™ models. You can depend on a Stiebel Eltron tankless electric water heater for many years to come.

Stiebel Eltron's knowledgeable customer support staff can offer product and sizing recommendations as well as help with troubleshooting and technical questions. **800.582.8423**

	Mini..	Mini..-E	DHC Classic	DHC-E Classic	DHC Trend	DHC-E Trend & Plus	Tempra® Trend & Plus
Application possibilities	single handwashing sink	single handwashing sink for commercial code-compliance	single sink	multiple handwashing sinks or single high flow sink	single handwashing sink	multiple handwashing sinks single high flow sink (larger sizes)	multiple handwashing sinks single high flow sink, showers
Heating system	Direct Coil™	Direct Coil™	Copper	Copper	Direct Coil™	Direct Coil™	Copper
Mechanical or electronic	Mechanical	Electronic	Mechanical	Electronic	Electronic	Electronic	Electronic
Special features		accepts input water up to 122°F		accepts input water up to 131°F	accepts input water up to 149°F*	accepts input water up to 149°F* Plus models have Advanced Flow Control™	accepts input water up to 131°F Plus models have Advanced Flow Control™
Installation orientations	below or above sink; water connections pointing up or down	below or above sink; water connections pointing up or down	below or above sink; water connections pointing down	below or above sink; water connections pointing down	below or above sink; water connections pointing down	below or above sink; water connections pointing down	below or above sink; water connections pointing down
Voltages available	120/240 V	120/240 V	120/240/277 V	240 V	120/240 V	120/240 V	240 V
Output range for model	1.8 – 5.7 kW	1.8 – 5.7 kW	3.0 – 9.6 kW	7.2 – 12 kW	3.0 – 14.4 kW	3.0 – 14.4 kW	12 – 36 kW
Power draw for model	14.6 – 29 A	14.6 – 29 A	14 – 40 A	30 – 50 A	25 – 60 A	25 – 60 A	50 – 150 A
Activation flow rate (varies by kW)	0.21, 0.40, 0.77 gpm	0.21, 0.30, 0.48 gpm	0.32, 0.43, 0.48, 0.69, 0.8 gpm	0.264 gpm	0.264 gpm	0.264 gpm	0.37, 0.50, 0.77 gpm
Temperature rise range (approx.)	~30 °F	~30 °F†	~30-80 °F	~20-90 °F	~20-90 °F	~20-90 °F	~30-90 °F
Temperature selector	no	yes	no	yes	yes, internal via jumper	yes	yes
Display screen	no	no	no	no	no	yes	yes
Width/height/depth	7½ / 6½ / 3¼ inches 19.0 / 16.5 / 8.2 cm	7½ / 6½ / 3¼ inches 19.0 / 16.5 / 8.2 cm	7½ / 14½ / 3½ inches 20.2 / 36.0 / 9.8 cm	7½ / 14½ / 4½ inches 20.0 / 36.0 / 10.4 cm	8 / 14½ / 4½ inches 20.2 / 36.0 / 10.9 cm	8 / 14½ / 4½ inches 20.2 / 36.0 / 10.9 cm	16½ / 14½ / 4½ inches 42.0 / 36.9 / 11.7 cm
Warranty	10/3	10/3	7/3	7/3	10/3	10/3	7/3

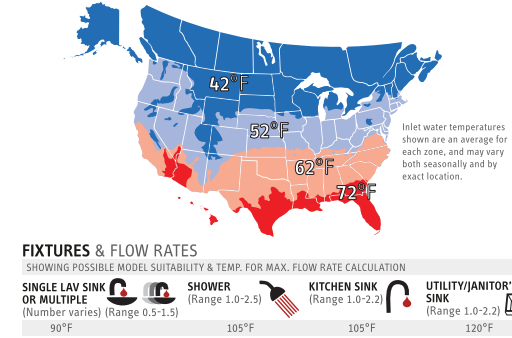
*Max input water 149°F; max input water that would be heated 131°F; max. temperature output 140°F. †Mini-E 6-2 can provide an 80°F rise at 0.50 GPM.

Commercial Point-of-Use Sizing Guides

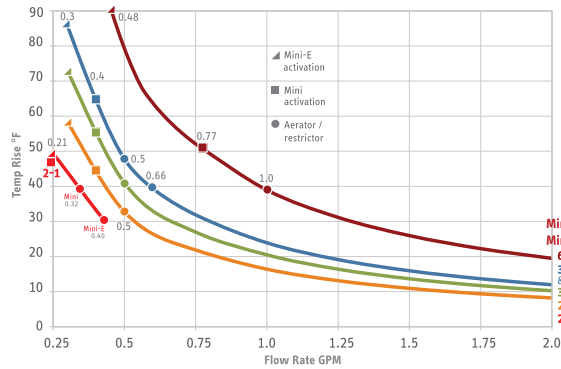
	42°F	52°F	62°F	72°F
1.8 kW Mini-/Mini-E 2-1 Min. activation 0.21 GPM Internally restricted to 0.32 / 0.40 GPM				
MAX. FLOW RATE	0.3 gpm	0.3 gpm	0.3 / 0.4 gpm	0.3 / 0.4 gpm
POSSIBLE FIXTURE TYPES				
2.4 kW Mini-/Mini-E 2.5-1 Min. activation 0.40 / 0.30 gpm				
MAX. FLOW RATE	0.3 GPM	0.4 GPM	0.6 GPM	0.9 GPM
POSSIBLE FIXTURE TYPES				
3.0 kW Mini-/Mini-E 3-1 Min. activation 0.40 / 0.30 gpm				
DHC 3-1 Classic Min. activation 0.32 gpm				
DHC 3/3.5-1 Trend @ 3.0 kW output Min. activation 0.26 gpm				
MAX. FLOW RATE	0.4 GPM	0.5 GPM	0.7 GPM	1.1 GPM
POSSIBLE FIXTURE TYPES				
3.4 kW DHC 3-2 Classic Min. activation 0.32 gpm				
MAX. FLOW RATE	0.5 GPM	0.6 GPM	0.8 GPM	1.25 GPM
POSSIBLE FIXTURE TYPES				
3.5 kW Mini-/Mini-E 3.5-1 Min. activation 0.40 / 0.30 gpm				
Mini-/Mini-E 4-2 Min. activation 0.40 / 0.30 gpm				
DHC 3/3.5-1 Trend @ 3.5 kW output Min. activation 0.26 gpm				
MAX. FLOW RATE	0.5 GPM	0.6 GPM	0.85 GPM	1.3 GPM
POSSIBLE FIXTURE TYPES				
3.8 kW DHC 4-2 Classic Min. activation 0.43 gpm				
DHC 4/6-2 Trend @ 3.8 kW output Min. activation 0.26 gpm				
DHC-E 4/6-2 Trend @ 3.8 kW output Min. activation 0.26 gpm				
MAX. FLOW RATE	0.5 GPM	0.7 GPM	0.9 GPM	1.4 GPM
POSSIBLE FIXTURE TYPES				
4.5 kW DHC 4-3 Classic Min. activation 0.43 gpm				
MAX. FLOW RATE	0.6 GPM	0.8 GPM	1.1 GPM	1.7 GPM
POSSIBLE FIXTURE TYPES				
4.8 kW DHC 5-2 Classic Min. activation 0.43 gpm				
MAX. FLOW RATE	0.7 GPM	0.9 GPM	1.2 GPM	1.8 GPM
POSSIBLE FIXTURE TYPES				
5.7 kW Mini-/Mini-E 6-2 Min. activation 0.77 / 0.48 gpm				
MAX. FLOW RATE	0.85 GPM	1 GPM	1.5 GPM	2.3 GPM
POSSIBLE FIXTURE TYPES				
6.0 kW DHC 6-2 & 6-3 Classic Min. activation 0.48 gpm				
DHC 4/6-2 Trend @ 6.0 kW output Min. activation 0.26 gpm				
DHC-E 4/6-2 Trend @ 6.0 kW output Min. activation 0.26 gpm				
MAX. FLOW RATE	0.85 GPM	1.1 GPM	1.5 GPM	2.3 GPM
POSSIBLE FIXTURE TYPES				
7.2 kW DHC 8-2 Classic Min. activation 0.69 gpm				
DHC-E 8/10 Classic @ 7.2 kW output Min. activation 0.26 gpm				
DHC 8/10-2 Trend @ 7.2 kW output Min. activation 0.26 gpm				
DHC-E 8/10-2 Trend & Plus @ 7.2 kW output Min. activation 0.26 gpm				
MAX. FLOW RATE	1 GPM	1.3 GPM	1.8 GPM	2.7 GPM / 1.5 GPM
POSSIBLE FIXTURE TYPES				OR
9.0 kW DHC 9-3 Classic Min. activation 0.8 gpm				
MAX. FLOW RATE	1.3 GPM	1.6 GPM / 1.2 GPM	2.2 GPM / 1.4 GPM	3.4 GPM / 1.9 GPM
POSSIBLE FIXTURE TYPES		OR	OR	OR
9.6 kW DHC 10-2 Classic Min. activation 0.79 gpm				
DHC 8/10-2 Trend @ 9.6 kW output Min. activation 0.26 gpm				
DHC-E 8/10-2 Trend & Plus @ 9.6 kW output Min. activation 0.26 gpm				
MAX. FLOW RATE	1.4 GPM	1.7 GPM / 1.3 GPM	2.3 GPM / 1.5 GPM	3.6 GPM / 2 GPM
POSSIBLE FIXTURE TYPES		OR	OR	OR

These tables show achievable flow rates for specific temperature rises, and suggest possible point-of-use fixture or fixtures for use with each model and size. They are not intended for whole house sizing. Use actual flow rates for an installation to determine if a particular model and size will deliver the temperature and flow rate required.

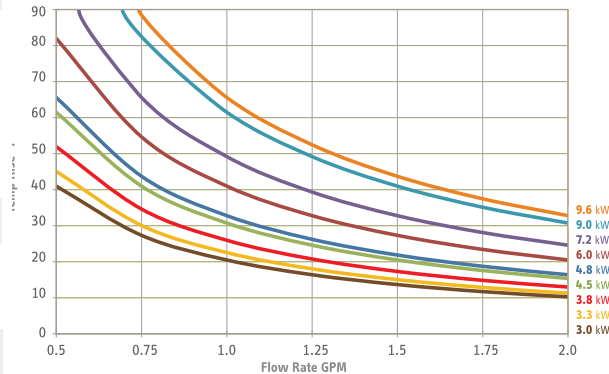
Max. Flow Rates shown for 240 V models are correct if installed with 240 V service. Increase one model size if unit will be installed with 208 V service.



1.8–5.7 kW Mini-/Mini-E
Temperature Rise vs. Flow Rate at Maximum Rated Voltage

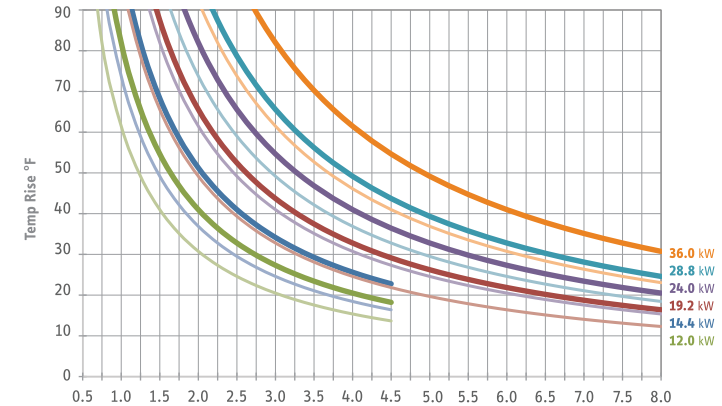


3.0–9.6 kW DHC & DHC-E Classic, DHC Trend, DHC-E Trend & Plus
Temperature Rise vs. Flow Rate at Maximum Rated Voltage



	42°F	52°F	62°F	72°F
12.0 kW DHC-E 12 Classic Min. activation 0.26 gpm				
DHC 12/15-2 Trend @ 12.0 kW output Min. activation 0.26 gpm				
DHC-E 12/15-2 Trend & Plus @ 12.0 kW output Min. activation 0.26 gpm				
Tempra® 12 Trend & Plus Min. activation 0.37 gpm				
MAX. FLOW RATE	1.7 GPM / 1.3 GPM	2.2 GPM / 1.55 GPM	2.9 GPM / 1.9 GPM	4.6 / 2.5 / 1.7 GPM
POSSIBLE FIXTURE TYPES	OR	OR	OR	OR
14.4 kW DHC 12/15-2 Trend @ 14.4 kW output Min. activation 0.26 gpm				
DHC-E 12/15-2 Trend & Plus @ 14.4 kW output Min. activation 0.26 gpm				
Tempra® 15 Trend & Plus Min. activation 0.50 gpm				
MAX. FLOW RATE	2 GPM / 1.6 GPM	2.6 GPM / 1.9 GPM	3.5 GPM / 2.3 GPM	5.5 / 3 / 2 GPM
POSSIBLE FIXTURE TYPES	OR	OR	OR	OR
19.2 kW Tempra® 20 Trend & Plus Min. activation 0.50 gpm				
MAX. FLOW RATE	2.7 / 2 / 1.7 GPM	3.45 / 2.5 / 1.9 GPM	4.7 / 3 / 2.3 GPM	7.3 / 4 / 2.7 GPM
POSSIBLE FIXTURE TYPES	OR	OR	OR	OR
24.0 kW Tempra® 24 Trend & Plus Min. activation 0.50 gpm				
MAX. FLOW RATE	3.4 / 2.6 / 2.1 GPM	4.3 / 3 / 2.4 GPM	5.9 / 3.8 / 2.8 GPM	8 / 5 / 3.4 GPM
POSSIBLE FIXTURE TYPES	OR	OR	OR	OR
28.8 kW Tempra® 29 Trend & Plus Min. activation 0.77 gpm				
MAX. FLOW RATE	4.1 / 3.1 / 2.5 GPM	5.2 / 3.7 / 2.9 GPM	7 / 4.6 / 3.4 GPM	8 / 6 / 4.1 GPM
POSSIBLE FIXTURE TYPES	OR	OR	OR	OR
36.0 kW Tempra® 36 Trend & Plus Min. activation 0.77 gpm				
MAX. FLOW RATE	5.1 / 4 / 3.15 GPM	6.5 / 4.6 / 3.6 GPM	8 / 5.7 / 4.2 GPM	8 / 7.5 / 5.1 GPM
POSSIBLE FIXTURE TYPES	OR	OR	OR	OR

12.0–36.0 kW DHC Trend; DHC-E Classic, Trend, & Plus; Tempra® Trend & Plus
Temperature Rise vs. Flow Rate at 240 V and 208 V



Looking for commercial/industrial 3-phase water heaters?

High capacity 3-phase electric water heaters from Stiebel Eltron are available for demanding commercial, industrial, and safety applications in all common voltages and sizes from 12 to 144 kW.

Our 3-phase commercial/industrial direct line is **800.TANKLESS**

DHC Trend



Model	DHC 3/3.5-1 Trend		DHC 4/6-2 Trend		DHC 8/10-2 Trend		DHC 12/15-2 Trend	
Item no.	200060		200062		200063		200064	
Phase - 50/60 Hz	1							
Voltage	120 v		240 v	208 v	240 v	208 v	240 v	208 v
Wattage ¹ , jumper position 1 [low] / 2 [high]	3 kW / 3.5 kW		3.8 kW / 6 kW	2.9 kW / 4.5 kW	7.2 kW / 9.6 kW	5.4 kW / 7.2 kW	12 kW / 14.4 kW	9 kW / 10.8 kW
Amperage, jumper position 1 [low] / 2 [high]	25 A / 29.2 A		15.8 A / 25 A	13.9 A / 21.7 A	30 A / 40 A	26 A / 34.6 A	50 A / 60 A	43.3 A / 52 A
Min. recommended circuit breaker size ² , jumper position 1 [low] / 2 [high]	25 A / 30 A		20 A / 25 A	15 A / 25 A	30 A / 40 A	30 A / 35 A	50 A / 60 A	50 A / 60 A
Min. recommended AWG wire size ³ , jumper position 1 [low] / 2 [high]	10/2 / 10/2		12/2 / 10/2	14/2 / 10/2	10/2 / 8/2	10/2 / 8/2	8/2 / 6/2	8/2 / 6/2
Minimum water flow to activate unit	0.264 gpm (1.0 l/min)							
Weight	5.5 lb (2.5 kg)							
Dimensions	Height 14 ¹ / ₈ " (360 mm) x Width 8" (202 mm) x Depth 4 ⁵ / ₁₆ " (109 mm)							
Nominal water volume	0.07 gal (0.277 l)							
Max. permissible inlet temperature ⁴	149 °F (65 °C)							
Maximum permissible pressure	145 psi (10 bar)							
Water connections	1/2" NPT							

DHC 3/3.5-1 Trend and 4/6-2 Trend ship with pressure compensating flow-reducer/aerators that must be installed.

1 Factory default setting is jumper position 2 [high]

2 Overcurrent protection sized at 100% of load. Tankless water heaters are considered a non-continuous load. Use only GFCI Class A circuit breakers.

3 Copper conductors with a temperature rating of 75 °C or greater must be used. Conductors should be sized to maintain a voltage drop of less than 3% under load.

4 Max input water 149°F; max input water that would be heated 131°F; max. temperature output 140°F.

These are our recommendations. Check local codes for compliance if necessary.

DHC-E Trend & Plus



Model	DHC-E 3/3.5-1 Trend	DHC-E 4/6-2 Trend		DHC-E 8/10-2 Trend DHC-E 8/10-2 Plus		DHC-E 12/15-2 Trend DHC-E 12/15-2 Plus	
Item no.	200057	200061		200058 (Trend) 202145 (Plus)		200059 (Trend) 200056 (Plus)	
Phase - 50/60 Hz	1						
Voltage	120 v	240 v	208 v	240 v	208 v	240 v	208 v
Wattage ¹ , jumper position 1 [low] / 2 [high]	3 kW / 3.5 kW	3.8 kW / 6 kW	2.9 kW / 4.5 kW	7.2 kW / 9.6 kW	5.4 kW / 7.2 kW	12 kW / 14.4 kW	9 kW / 10.8 kW
Amperage, jumper position 1 [low] / 2 [high]	25 A / 29.2 A	15.8 A / 25 A	13.9 A / 21.7 A	30 A / 40 A	26 A / 34.6 A	50 A / 60 A	43.3 A / 52 A
Min. recommended circuit breaker size ² , jumper position 1 [low] / 2 [high]	25 A / 30 A	20 A / 25 A	15 A / 25 A	30 A / 40 A	30 A / 35 A	50 A / 60 A	50 A / 60 A
Min. recommended AWG wire size ³ , jumper position 1 [low] / 2 [high]	10/2 / 10/2	12/2 / 10/2	14/2 / 10/2	10/2 / 8/2	10/2 / 8/2	8/2 / 6/2	8/2 / 6/2
Minimum water flow to activate unit	0.264 gpm (1.0 l/min)						
Weight	5.5 lb (2.5 kg)						
Dimensions	Height 14 ¹ / ₈ '' (360 mm) x Width 8'' (202 mm) x Depth 4 ⁵ / ₁₆ '' (109 mm)						
Nominal water volume	0.07 gal (0.277 l)						
Max. permissible inlet temperature ⁴	149°F (65°C)						
Maximum permissible pressure	145 psi (10 bar)						
Water connections	½'' NPT						

DHC-E 3/3.5-1 Trend and 4/6-2 Trend ship with pressure compensating flow-reducer/aerators that must be installed.

1 Factory default setting is jumper position 2 [high]

2 Overcurrent protection sized at 100% of load. Tankless water heaters are considered a non-continuous load. Use only GFCI Class A circuit breakers.

3 Copper conductors with a temperature rating of 75 °C or greater must be used. Conductors should be sized to maintain a voltage drop of less than 3% under load.

4 Max input water 149°F; max input water that would be heated 131°F; max. temperature output 140°F.

These are our recommendations. Check local codes for compliance if necessary.



Mechanical models:	Mini™ 2-1 231045	Mini™ 2.5-1 232098	Mini™ 3-1 220816	Mini™ 3.5-1 232099	Mini™ 4-2 222039	Mini™ 6-2 220817
Thermostatic models:	Mini™-E 2-1 236011	Mini™-E 2.5-1 236135	Mini™-E 3-1 236010	Mini™-E 3.5-1 236136	Mini™-E 4-2 236009	Mini™-E 6-2 236008
Phase - 50/60 Hz	1					
Voltage ¹	120 V	120 V	120 V	120 V	240 V or 208 V	240 V or 208 V
Wattage	1.8 kW	2.4 kW	3.0 kW	3.5 kW	3.5 kW 2.6 kW	5.7 kW 4.3 kW
Amperage draw	15 A	20 A	25 A	29 A	15 A 13 A	24 A 21 A
Min. recommended circuit breaker size ²	15 A (SP)	20 A (SP)	25 A (SP)	30 A (SP)	15 A (DP)	25 A (DP)
Min. recommended wire size ³ (copper)	14/2 AWG	12/2 AWG	10/2 AWG	10/2 AWG	14/2 AWG	10/2 AWG
Min. flow to activate						
Mechanical units	0.21 gpm (0.8 l/min)	0.40 gpm (1.5 l/min)	0.40 gpm (1.5 l/min)	0.40 gpm (1.5 l/min)	0.40 gpm (1.5 l/min)	0.77 gpm (2.9 l/min)
Thermostatic units	0.21 gpm (0.8 l/min)	0.30 gpm (1.15 l/min)	0.30 gpm (1.15 l/min)	0.30 gpm (1.15 l/min)	0.30 gpm (1.15 l/min)	0.48 gpm (1.8 l/min)
Water temp. range	Electronic units are adjustable from 86-122°F (30-50°C)					
Energy Factor (EF) (Mechanical / Thermostatic)	0.98 / 0.97 (UEF)	1.0 / 0.99	0.99 / 0.99	0.99 / 0.99	0.99 / 1.0	0.99 / 1.0
Weight	3.44 lb (1.56 kg)					
Dimensions	Width 7½" (19.0 cm) x Height 6½" (16.5 cm) x Depth 3¼" (8.2 cm)					
Water volume in unit	0.026 gal (0.1 l)					
Minimum pressure	30 psi (2 bar)					
Working pressure	150 psi (10 bar)					
Tested to pressure	300 psi (20 bar)					
Water connections ⁴	¾" O.D. flexible braided stainless steel hose connectors					

Mini™ 2-1 is internally restricted to 0.32 gpm (1.2 l/min). Mini™-E 2-1 is internally restricted to 0.40 gpm (1.5 l/min).

All Mini™ models ship with appropriately sized pressure compensating flow-reducer/aerators that must be installed.

¹ Nominal mains voltage is 110-120V and 220-240V.

² This is our recommendation for overcurrent protection sized at 100% of load. Check local codes for compliance if necessary. Tankless water heaters are considered a non-continuous load.

³ Copper must be used. Conductors should be sized to maintain a voltage drop of less than 3% under load.

⁴ Mechanical units suitable for supply with cold water only. Thermostatic units can accept inlet water of 122 °F.

DHC Classic



Model	DHC 3-1 Classic	DHC 3-2 Classic	DHC 4-2 Classic	DHC 4-3 Classic	DHC 5-2 Classic	DHC 6-2 Classic	DHC 6-3 Classic	DHC 8-2 Classic	DHC 9-3 Classic	DHC 10-2 Classic
Item no.	202646	202647	202648	202649	202650	202651	202652	202653	202654	202655
Phase - 50/60 Hz	1									
Voltage	120 v	240 v 208 v	240 v 208 v	277 v	240 v 208 v	240 v 208 v	277 v	240 v 208 v	277 v	240 v 208 v
Wattage	3.0 kW	3.3 kW 2.5 kW	3.8 kW 2.9 kW	4.5 kW	4.8 kW 3.6 kW	6.0 kW 4.5 kW	6.0 kW	7.2 kW 5.4 kW	9.0 kW	9.6 kW 7.2 kW
Amperage	25 A	14 A 12 A	16 A 14 A	17 A	20 A 18 A	25 A 22 A	21.7 A	30 A 26 A	32.5 A	40 A 35 A
Min. recommended circuit breaker size ¹	25 A	15 A 15 A	20 A 15 A	20 A	20 A 20 A	25 A 25 A	25 A	30 A 30 A	35 A	40 A 35 A
Min. recommended wire size ²	10/2 AWG	14/2 AWG	12/2 AWG 14/2 AWG	12/2 AWG	12/2 AWG	10/2 AWG	10/2 AWG	10/2 AWG	8/2 AWG	8/2 AWG
Minimum water flow to activate unit	0.32 gpm (1.2 l/min)	0.32 gpm (1.2 l/min)	0.43 gpm (1.6 l/min)	0.43 gpm (1.6 l/min)	0.43 gpm (1.6 l/min)	0.48 gpm (1.8 l/min)	0.48 gpm (1.6 l/min)	0.69 gpm (2.6 l/min)	0.8 gpm (3.0 l/min)	0.8 gpm (3.0 l/min)
Weight	5.5 lb (2.5 kg)	4.6 lb (2.1 kg)	4.6 lb (2.1 kg)	4.6 lb (2.1 kg)	4.6 lb (2.1 kg)	5.5 lb (2.5 kg)	5.5 lb (2.5 kg)	5.5 lb (2.5 kg)	5.5 lb (2.5 kg)	5.5 lb (2.5 kg)
Dimensions	Width 7½" (20.2 cm) x Height 14¾" (36.0 cm) x Depth 3¾" (9.8 cm)									
Nominal water volume	0.13 gal (0.5 l)									
Max. permissible inlet temperature	86°F (30°C)									
Minimum pressure	30 psi (2 bar)									
Working pressure	150 psi (10 bar)									
Tested to pressure	300 psi (20 bar)									
Water connections ³	½" NPT									

DHC 3-1, 3-2, 4-2 Classic ship with a 0.5 gpm (1.9 l/min) pressure compensating flow-reducer/aerator that must be installed.

¹ This is our recommendation for overcurrent protection sized at 100% of load (DP for 240/208/277 V & SP for 120 V models). Check local codes for compliance if necessary. Tankless water heaters are considered a non-continuous load.

² Copper must be used. Conductors should be sized to maintain a voltage drop of less than 3% under load.

³ Suitable for supply with cold water only.

DHC-E Classic

Model	Item Number	DHC-E 8/10* 224201		DHC-E 12 230628	
Phase		single 50/60 Hz		single 50/60 Hz	
Voltage		240 v	or 208 v	240 v	or 208 v
Wattage		7.2/9.6 kw	5.4/7.2 kw	12 kw	9 kw
Amperage		30/40 A	26/35 A	50 A	44 A
Min. recommended circuit breaker ¹ (DP)		30/40 A	30/35 A	50 A	50 A
Min. recommended wire size ² (copper)		10 AWG/8 AWG		8 AWG	
Maximum temperature increase above ambient water temp.	@ 0.75 GPM	66/87 °F	49/66 °F	92 °F	82 °F
	@ 1.00 GPM	49/66 °F	37/49 °F	82 °F	61 °F
	@ 1.50 GPM	33/44 °F	25/33 °F	54 °F	41 °F
	@ 2.25 GPM	-	-	36 °F	27 °F
	@ 3.00 GPM	-	-	27 °F	20 °F
Min. water flow to activate unit		0.264 gpm (1.0 l/min)			
Max. inlet water temperature		131 °F (55 °C)			
Weight		5.9 lb (2.7 kg)			
Nominal water volume		0.13 gal (0.5 l)			
Dimensions		Width 7 ¹ / ₈ " (20.0 cm) x Height 14 ³ / ₁₆ " (36.0 cm) x Depth 4 ¹ / ₈ " (11.0 cm)			
Minimum pressure		30 psi (2 bar)			
Working pressure		150 psi (10 bar)			
Tested to pressure		300 psi (20 bar)			
Water connections		1/2" NPT			

*DHC-E 8/10 is a single unit that is switchable at installation via jumper for output at 7.2 kW (Stage 1) or 9.6 kW (Stage 2).

¹ Overcurrent protection sized at 100% of load. Tankless water heaters are considered a non-continuous load.

² Copper conductors with a temperature rating of 75 °C or greater must be used. Conductors should be sized to maintain a voltage drop of less than 3% under load. These are our recommendations. Check local codes for compliance if necessary.

Tempra® Trend & Plus

Tempra® Model	12 Trend 239213		15 Trend 239214		20 Trend 239215		24 Trend ³ 239216		29 Trend ⁴ 239217		36 Trend ⁵ 239218		
Item Number	12 Plus 239219		15 Plus 239220		20 Plus 239221		24 Plus ³ 239222		29 Plus ⁴ 239223		36 Plus ⁵ 239225		
Phase	single 50/60 Hz		single ⁶ 50/60 Hz		single ⁶ 50/60 Hz		single ⁶ 50/60 Hz		single ⁶ 50/60 Hz		single ⁶ 50/60 Hz		
Voltage	240 V or 208 V		240 V or 208 V		240 V or 208 V		240 V or 208 V		240 V or 208 V		240 V or 208 V		
Wattage	12 kW	9 kW	14.4 kW	10.8 kW	19.2 kW	14.4 kW	24 kW	18 kW	28.8 kW	21.6 kW	36 kW	27 kW	
Amperage draw	50 A	44 A	2 x 30 A	2 x 26 A	2 x 40 A	2 x 35 A	2 x 50 A	2 x 44 A	3 x 40 A	3 x 35 A	3 x 50 A	3 x 44 A	
Number & min. recommended size of circuit breakers ¹ (DP)	1 x 50 A		2 x 30 A		2 x 40 A		2 x 35 A		2 x 50 A		3 x 40 A	3 x 35 A	3 x 50 A
Number of runs & min. recommended wire size ² (copper)	1 x 8/2 AWG		2 x 10/2 AWG		2 x 8/2 AWG		2 x 8/2 AWG		3 x 8/2 AWG		3 x 8/2 AWG		
Maximum temperature increase above ambient water temp	@ 1.50 GPM	54 °F	41 °F	65 °F	49 °F	88 °F	66 °F	92 °F	82 °F	92 °F	92 °F	92 °F	
	@ 2.25 GPM	36 °F	27 °F	43 °F	37 °F	58 °F	44 °F	73 °F	54 °F	87 °F	66 °F	92 °F	82 °F
	@ 3.00 GPM	27 °F	20 °F	33 °F	25 °F	44 °F	33 °F	54 °F	41 °F	66 °F	49 °F	82 °F	61 °F
	@ 4.50 GPM	-	-	-	-	29 °F	22 °F	37 °F	27 °F	44 °F	33 °F	55 °F	41 °F
Min. water flow to activate unit	0.37 gpm (1.4 l/min)		0.50 gpm (1.9 l/min)		0.50 gpm (1.9 l/min)		0.50 gpm (1.9 l/min)		0.77 gpm (2.9 l/min)		0.77 gpm (2.9 l/min)		
Weight	13.5 lb (6.1 kg)		16.1 lb (7.3 kg)		16.1 lb (7.3 kg)		16.1 lb (7.3 kg)		19.0 lb (8.6 kg)		19.0 lb (8.6 kg)		
Nominal water volume	0.13 gal (0.5 l)		0.26 gal (1.0 l)		0.26 gal (1.0 l)		0.26 gal (1.0 l)		0.39 gal (1.5 l)		0.39 gal (1.5 l)		
Max. inlet water temperature	131 °F (55 °C)												
Dimensions	Width 16 ⁵ / ₈ " (42.0 cm) x Height 14 ¹ / ₂ " (36.9 cm) x Depth 4 ⁵ / ₈ " (11.7 cm)												
Minimum pressure	30 psi (2 bar)												
Working pressure	150 psi (10 bar)												
Tested to pressure	300 psi (20 bar)												
Water connections	¾" NPT												

¹ Overcurrent protection sized at 100% of load. Tankless water heaters are considered a non-continuous load.

² Copper conductors with a temperature rating of 75 °C or greater must be used. Conductors should be sized to maintain a voltage drop of less than 3% under load.

³ Requires minimum 150 A main service. ⁴ Requires 200 A main service. ⁵ Requires 300 A main service.

⁶ 29 Trend/Plus & 36 Trend/Plus may be wired for balanced 3-phase 208 V. 15 Trend/Plus, 20 Trend/Plus, 24 Trend/Plus may be wired for unbalanced 3-phase 208 V. These are our recommendations. Check local codes for compliance if necessary.

STIEBEL ELTRON

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Mini™:
Certified to ANSI/UL Std. 499
& E335-2-35
DHC Classic:
Certified to ANSI/UL Std. 499
Conforms to CAN/CSA Std. E335-1/3E
& E60335-2-35
Mini™-E / DHC Trend / DHC-E:
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Conforms to CAN/CSA Std. C22.2 No. 64
Tempra®:
Certified to ANSI/UL Std. 499
Conforms to CAN/CSA Std. C22.2 No. 88



Tested and certified by WQA
against NSF/ANSI/CAN 372
for lead free compliance.



DOCUMENT 01 10 12

BID DIVISION DESCRIPTIONS

PART 1 - GENERAL

1.1 Section Includes

- A. Descriptions of Bid Divisions.

1.2 Related Sections

- A. Section 01 11 00 - Summary of Work.

1.3 DESCRIPTIONS OF BID DIVISIONS

- A. For the purpose of clarity, the scope of work for each Bid Division has been divided into three categories: "INCLUDED", "ALSO INCLUDED", and "EXCLUDED".
 - 1. Items listed under "INCLUDED" are the standard and/or "conventional" work scope of each Bid Division.
 - 2. Information provided under "ALSO INCLUDED" points out some items which may be considered less obvious or "unconventional," but which are included in the work scope of a particular Bid Division. (Information under this heading is not always necessary to delineate a Bid Division.)
 - 3. Information provided under the heading "EXCLUDED" is for the purpose of indicating beginning and termination points, and/or to provide an understanding of fringe involvements included in Bid Divisions. (Information under this heading is not always necessary to delineate a Bid Division.)
- B. Bid Divisions are the categories of Work into which the Project will be divided for bidding and construction. Bid Divisions should not be confused with Specification Sections.
 - 1. Bid Division Descriptions (Section 01 11 12) are a written description of the Scope of the Work included in each of the Bid Divisions.
 - 2. Bid Division Descriptions have been written to clearly define each Bid Division. Contractors are encouraged to request information or clarification by calling the Construction Manager. The Owner will not be responsible for a Contractor's incorrect interpretation of the Descriptions.
 - 3. Although each Bid Division involves a standard segment of

"conventional" trade contracting, multiple contract project delivery requires that adjustments be made to permit the completion of each Bid Division as a separate segment of construction. Each Contractor shall carefully review the total scope of responsibilities with respect to the Work of the Bid Division(s), and shall provide for the total scope in Contractor's Bid Division Proposal.

4. Each Contractor shall become familiar with the work scopes of all other Bid Divisions which interface with the Bid Division of which a proposal is being submitted. Each Contractor shall consider that the work of Contractor's Bid Division(s) may follow the work of another Bid Division, that other Contractors may perform work after the work of Contractor's Bid Division(s), and that other Contractors may work simultaneously with the work of Contractor's Bid Division(s). Each Contractor shall include provisions for such sequencing and scheduling, and for cooperation and coordination with such other Contractors in the Bid Proposal.
5. Nothing contained in the Bidding Documents, including the Bid Division descriptions, shall be construed by Bidders as an assignment of work to any construction industry trade. Each Bidder is responsible for Bidder's own work assignments within the Bid Division.

1.4 BID DIVISION DESCRIPTIONS

A. BID DIVISION 1: MECHANICAL UPGRADES – B-03-2022-23

1. **Included:** The work under this contract includes but not limited to: Demolition of the existing ductwork, grilles, registers, T-stats, mixing boxes and controls. Provide and install new ductwork, mixing boxes, grilles, and registers. The contractor will also provide testing, adjustments, and balancing. The HVAC controls will be provided and installed by the District's EMS vendor. The mechanical contractor will coordinate the EMS work with the District's EMS vendor. Also included in this bid division is all labor and materials required to complete the plumbing work as detailed on plan sheet P1.0 and shown on the Plumbing material & fixture selections information included in Addendum 2.

Division 01	General Requirements
Division 02	Existing Conditions & Demolition
07 27 00	Firestopping
23 00 00	Mechanical General Requirements
23 05 00	Heating Ventilating Air Conditioning
23 05 93	Testing Adjusting Balancing
	Plumbing material & fixture selections

Also included but not limited to:

Provide As-built drawings (for this Bid Division) showing original contract, change order work, RFI'S and any other additional work.

All construction included in this Bid Divisions shall be in accordance with all documents, all organizations having jurisdiction, and all other, applicable design criteria.

Any cutting and patching necessary to install conduits, boxes, and raceways for Bid Division.

Provide roof jacks to the Bid Division 3 contractor for any roof penetrations need to perform the Bid Division 1 work.

Provide access panels to the Bid Division 3 contractor as needed for the Bid Division 1 work.

Provide all labor and material to install condensate lines for all new and existing HVAC equipment.

Provide coordination with other Bid Divisions, District Maintenance staff and District vendors.

Excluded:

Bid Division 2 work

Bid Division 3 work

23 09 22 Climate Management Control For HVAC

A. BID DIVISION 2: ELECTRICAL UPGRADES – B-04-2022-23

1. Included: The work under this contract includes but not limited to: Selective demolition of existing light fixtures, outlets, switches, abandoned circuits and panels. Provide and install new panels, light fixtures, switches, outlets, and line voltage for new equipment for all bid divisions. The contractor will also provide all fire alarm work included in the bid division. The lighting controls will be provided and installed by the District's EMS vendor. The electrical contractor will coordinate the lighting control work with the District's EMS vendor.

Division 01	General Requirements
Division 02	Existing Conditions & Demolition
07 27 00	Firestopping
26 05 00	General Electrical Requirements
26 05 19	Line Voltage Wire and Cable
26 05 26	Grounding
26 05 33	Outlet, Junction and Pull Boxes
26 05 42	Conduits, Raceways and Fittings
26 05 50	Through-Penetration Firestopping for Electrical Systems
26 24 16	Panelboards and Distribution Panels

Addendum 2

26 27 26	Devices Wiring
26 28 16	Circuit Breakers
26 51 00	Lighting
28 31 00	Fire Alarm System (Existing)

Also included but not limited to:

Provide As-built drawings (for this Bid Division) showing original contract, change order work, RFI'S and any other additional work.

All construction included in this Bid Divisions shall be in accordance with all documents, all organizations having jurisdiction, and all other, applicable design criteria.

Any cutting and patching necessary to install conduits, boxes, and raceways for this Bid Division.

Provide coordination with other Bid Divisions, District Maintenance staff and District vendors.

Provide roof jacks to the Bid Division 3 contractor for any roof penetrations need to perform the Bid Division 2 work.

Provide access panels to the Bid Division 3 contractor as needed for the Bid Division 2 work.

Provide temporary power and lighting for all Bid Divisions, District Maintenance staff and District vendors.

Provide line voltage for equipment installed by this and all other Bid Divisions.

Excluded:

Bid Division 1 work

Bid Division 3 work

27 10 00 – Structured Cabling

27 51 17 – Assistive Listening Device - Portable

A. BID DIVISION 3: GENERAL CONSTRUCTION– B-05-2022-23

1. Included: The work under this contract includes but not limited to: Selective demolition of existing ceiling grid & tiles, walls, etc. Provide and install new metal stud walls, gypsum board, ceiling grid & tiles, ceramic tile in Men's restroom, new & existing doors, door hardware, glazing, storefront door, and interior painting. Casework, plumbing, Civil work, flooring & fire sprinklers not part of these contract.

Division 01	General Requirements
Division 02	Existing Conditions & Demolition
06 20 00	Finish Carpentry

Addendum 2

07 20 22	Insulation
07 27 00	Firestopping
07 92 00	Joint Sealers
08 11 13	Standard Steel Frames
08 14 00	Wood Doors
08 41 13	Aluminum Entrances and Storefronts
08 71 00	Door Hardware
08 80 00	Glazing
09 21 16	Gypsum Board Systems
09 22 16	Metal Studs- Non Load Bearing
09 30 13	Ceramic Tile
09 51 13	Acoustical Suspension Systems
09 51 14	Acoustical Ceilings – Lay-in
09 67 23	Resinous Flooring – Epoxy
09 91 00	Painting

Also included but not limited to:

Provide As-built drawings (for this Bid Division) showing original contract, change order work, RFI'S and any other additional work.

All construction included in this Bid Divisions shall be in accordance with all documents, all organizations having jurisdiction, and all other, applicable design criteria.

Any cutting and patching necessary to install conduits, boxes, and raceways for Bid Division

Provide all labor and material to install blocking as needed for casework, toilet partitions, wall-mounted accessories, mechanical and electrical equipment for all Bid Divisions.

Provide all labor and material to install access doors for all Bid Divisions.

Provide all labor and material to install roof jacks for all Bid Divisions.

Provide continuous clean up. Provide one laborer all day each Friday for a weekly jobsite cleanup (broom clean).

Provide coordination with other Bid Divisions, District Maintenance staff and District vendors.

Provide labor for the daily securing of the site at the end of each workday.

Excluded:

Bid Division 1 work

Bid Division 2 work

05 52 00 – Handrails and Railings

06 41 00 – Custom Casework

09 65 13 – Resilient Base and Accessories

Addendum 2

09 68 13 – Carpet Tiles
10 14 10 – Room Signage
10 14 11 – Restroom Signage
31 00 00 – Earthwork
Division 32 work

DOCUMENT 00 43 13

BID BOND

KNOW ALL MEN BY THESE PRESENTS that we the undersigned _____ as Principal and _____ as Surety, are hereby held and firmly bound unto the Berryessa Union School District (“Owner”) in the sum of _____ Dollars (\$_____) for payment of which sum, well and truly to be made, we hereby jointly and severally bind ourselves, our heirs, executors, administrators, successors and assigns.

The condition of the above obligation is such that whereas the Principal has submitted to the Owner a certain bid, attached hereto and hereby made a part hereof, to enter into a Contract in writing for the construction of **Tenant Improvements at the New District Office Project – Bid Division**_____ in strict accordance with Contract Documents.

NOW, THEREFORE,

a. If said bid shall be rejected, or, in the alternative;

b. If said bid shall be accepted and the Principal shall execute and deliver a contract in the form of agreement attached hereto and shall execute and deliver Performance and Payment Bonds in the forms attached hereto (all properly completed in accordance with said bid), and shall in all other respects perform the agreement created by the acceptance of said bid;

Then this obligation shall be void, otherwise the same shall remain in full force and effect, it being expressly understood and agreed that the liability of the Surety for any and all default of the Principal hereunder shall be the amount of this obligation as herein stated.

Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the Contract on the call for bids, or to the Work to be performed hereunder, or the specifications accompanying the same, shall in any way affect its obligation under this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of said Contract or the call for bids, or to the Work, or to the specifications.

IN WITNESS WHEREOF, the above-bounden parties have executed this instrument under several seals this ____ day of _____, 201__, the name and corporate party being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body. In the presence of:

(Notary Seal)

(Principal)

(Business Address)

(Corporate Surety)

Business Address)

By:_____

The rate or premium of this bond is _____ per thousand, the total amount of premium charged, \$_____.

(The above must be filled in by Corporate Surety).

END OF DOCUMENT