More

Examples of Markets Served

Agriculture
Automotive
Bio-Pharmaceutical
Botanicals
Bottled Water Plants
Chemical Processing
Commercial Buildings
Dairies
Educational Facilities
Energy/Power/Cogeneration
Entertainment Complexes
Electronics
Food/Beverage
Government
Grocery
Hotels/Lodging
Hospitals/Healthcare
Ink/Dye Production
Laboratories
Laundry
Manufacturing
Marine
Military
Multi-Residence Facilities
Municipalities
Plating/Coating
Printing
Pulp/Paper
Oil/Petroleum/Gas
Textile
Theme Parks
Universities
Vehicle Wash

The Culligan G2 Series

Reverse Osmosis System

The G Series Reverse Osmosis systems are the direct result of Culligan's long time experience in membrane applications around the world. From process water for any size business to treating water for an entire city, Culligan has the knowledge and the range of products you need to get the job done.

The Culligan G2 is a painted steel skidded system sized to serve many medium sized applications that require high quality reverse osmosis water. It is designed with the flexibility to closely match your treatment requirements from 3 to 18 gallons per minute (4,000 to 25,000 gallons per day). Choose from a high efficiency or high production design with horizontal or vertical mounting of the membrane housings. A rich standard feature set with multiple options are available to satisfy virtually any application. Select the right size and choose any options needed to complete your system.

Key Product Features

- Simple System Integration
- Global Product Platform
- Flexible Configurations
- Choice of High Efficiency or High Production Design
- Quick Delivery / Easy Installation
- Exclusive Culligan Advanced Electronics
  - Historical Operating Data
  - Alarm Recognitions
  - US Standard and Metric Readings
  - Remote Monitoring Options
  - Telemetry Options

Culligan®

better water. pure and simple.™

Examples of RO Applications

- Ice Production/Drinking Water–Reduces scaling, improves taste and clarity.
- Steam Production – Reduces scaling and maintenance
- Humidification–Reduces scaling and dusting
- Misting –Reduces scaling and extends equipment life
- Pretreatment for High Purity Systems – Reduces regeneration requirements
- Reclaim / Recycling - Water conservation
- Boiler and Cooling Towers –Improves energy, reduces chemical consumption
- Washing and Rinsing – Improves performance, spot-free rinses.
- Brackish water potabilization

Standard Features

- Painted Steel Frame Design
- Energy Efficient Multi-stage Stainless Steel Pump
- FRP Membrane Housings
- Inlet Solenoid Valve
- Pretreatment Sediment Filter
- Concentrate and Recirculation Throttling Valves
- System Operating Pressure Gauge
- Electronic Turbine Style Flow Meters
- Stainless Steel Pump Throttling Valve (Plus Models)
- Product Flush Solenoid Valve (Plus Models)
- Electronic Pressure Transducers (Plus Models)
- Stainless Steel Concentrate and Recirculation Valves (Plus Models)
- Culligan Electronic Control Panel
  - Telemetric Capability
  - Comprehensive System Monitoring
  - Lighted Alphanumeric Display
  - TDS Monitoring of Water Quality and Rejection
- Low Pressure Switch and Auto Restart
- Connection for Pretreatment Signal Switch and Level Control
- Elapsed run time monitor
- Visual and/or Audible Alarms
- Remote Alarm Output Connection
- System Flow Rate Monitoring
- User Selectable Flush Options

Optional Features & Accessories

- Multi-Stage Pretreatment Filters
- Stainless Steel Frame Design
- Polypropylene, PVDF or SS Plumbing
- Wireless Remote Digital Display
- Leak Sensor
- RS232, RS485 Output
- PLC Controller
- Storage Tanks
- Level Controls
- Distribution Pump Skids
- Post Treatment Polishing Skids
- Chemical Feed Pumps
- Ultraviolet Sterilizer Lights
- Pressurized Storage System
- Global Power Platforms
- Additional Customization Available on Request

System Specifications

Specification	US	Metric
Inlet Pressure (dynamic)	20-50 psig	1.4 – 3.5 bar
Maximum Operating Pressure	150–200 psig	10.3 – 13.8 bar
Power Voltage Frequency Phase	208-230-460 60 Hz 1 or 3	380-415 50 Hz 1 or 3
Feed Water Temperature	33–100° F	1-40° C
Turbidity, maximum	< 1 NTU	< 1 NTU
pH Range	3 – 11	3 – 11
Chlorine, max.: 0 mg/L	0 mg/l	0 mg/l
Total Dissolved Solids, maximum	2500 mg/l	2500 mg/l
Silt Density Index Well Water Surface Water	 < 3 < 5	 < 3 < 5
Iron, maximum	< 0.1 mg/l	< 0.1 mg/l
Salt Rejection, nominal	> 98 %	> 98 %
Product Water Hardness	< 1% Raw Hardness	< 1% Raw Hardness

*Nominal capacity based on new RO membranes operating on a properly pretreated feed water of 500 ppm TDS as NaCl, 77 °F (25 °C), Silt Density Index (SDI) below 3, and supplying water to atmosphere. Productivity will vary depending on the actual feed water quality and temperature.

Note: Membrane life dependant on site specific conditions.

Series G2 Reverse Osmosis System - High Efficiency

Model	Nominal Capacity (GPM / LPM)	Nominal Capacity (GPD / m3/h)	Module Qty & Size	Approx. System Recovery (%)	Motor (HP/KW)	Electric Power Required (VAC)	Dimension L x W x H (inches/milimeters)
G2 - 2HE	2.78	4000	(2), 4"x40"	50	2 - 1.49	208 - 230 /3/ 60	22 x 31 x 56
	10.52	0.63			2 - 1.49	380 - 415/3/50	560 x 787 x 1425
G2 - 3HE	4.03	5800	(3), 4"x40"	60	2 - 1.49	208 - 230 /3/ 60	22 x 31 x 56
	15.25	0.91			2 - 1.49	380 - 415/3/50	560 x 787 x 1425
G2 - 4HE	5.21	7500	(4), 4"x40"	60	2 - 1.49	208 - 230/3/60	22 x 31 x 56
	19.72	1.18			2 - 1.49	380 - 415/3/50	560 x 787 x 1425
G2 - 5HE	6.25	9000	(5), 4"x40"	75	2 - 1.49	208 - 230/3/60	22 x 31 x 56
	23.66	1.42			2 - 1.49	380 - 415/3/50	560 x 787 x 1425
G2 - 6HE	6.94	10000	(6), 4"x40"	75	2 - 1.49	208 - 230 /3/ 60	22 x 31 x 56
	26.29	1.58			2 - 1.49	380 - 415/3/50	560 x 787 x 1425
G2 - 7HE	9.2	13250	(7), 4"x40"	75	3 - 2.24	208 - 230/3/60	30.5 x 31 x 56
	34.83	2.09			3 - 2.24	380 - 415/3/50	775 x 787 x 1425
G2 - 8HE	10.42	15000	(8), 4"x40"	75	3 - 2.24	208 - 230/3/60	30.5 x 31 x 56
	39.43	2.37			3 - 2.24	380 - 415/3/50	775 x 787 x 1425
G2 - 9HE	11.98	17250	(9), 4"x40"	75	3 - 2.24	208 - 230/3/60	30.5 x 31 x 56
	45.35	2.72			3 - 2.24	380 - 415/3/50	775 x 787 x 1425
G2 - 10HE	13.19	19000	(10), 4"x40"	75	3 - 2.24	208 - 230/3/60	30.5 x 31 x 56
	49.95	3			3 - 2.24	380 - 415/3/50	775 x 787 x 1425

Series G2 Reverse Osmosis System - High Production

Model	Nominal Capacity (GPM / LPM)	Nominal Capacity (GPD / m3/h)	Module Qty & Size	Nominal System Recovery (%)	Motor (HP/KW)	Electric Power Req'd (VAC)	Dimension L x W x H (inches/milimeters)
G2 - 2HP	4.4	6341	(2), 4"x40"	75	3 - 2.24	208 - 230/3/60	22 x 31 x 56
	16.7	1			5 - 3.73	380 - 415/3/50	560 x 787 x 1425
G2 - 3HP	6.6	9511	(3), 4"x40"	75	5 - 3.73	208 - 230/3/60	22 x 31 x 56
	25.0	1.5			5 - 3.73	380 - 415/3/50	560 x 787 x 1425
G2 - 4HP	8.8	12682	(4), 4"x40"	75	7.5 - 5.6	208 - 230/3/60	22 x 31 x 56
	33.3	2			7.5 - 5.6	380 - 415/3/50	560 x 787 x 1425
G2 - 5HP	11.0	15852	(5), 4"x40"	75	7.5 - 5.6	208 - 230/3/60	22 x 31 x 56
	41.7	2.5			7.5 - 5.6	380 - 415/3/50	560 x 787 x 1425
G2 - 6HP	13.2	19022	(6), 4"x40"	75	7.5 - 5.6	208 - 230/3/60	22 x 31 x 56
	50.0	3			7.5 - 5.6	380 - 415/3/50	560 x 787 x 1425
G2 - 8HP	15.4	22193	(8), 4"x40"	70	7.5 - 5.6	208 - 230/3/60	30.5 x 31 x 56
	58.3	3.5			7.5 - 5.6	380 - 415/3/50	775 x 787 x 1425
G2 - 10HP	17.61	25363	(10), 4"x40"	70	7.5 - 5.6	208 - 230/3/60	30.5 x 31 x 56
	66.67	4			7.5 - 5.6	380 - 415/3/50	775 x 787 x 1425

PRELIMINARY

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www.culliganindustrial.com

Printed 11/08

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Series G2

Reverse Osmosis Systems

Specifications and Operating Data

High Effeciency Models

HE Models	Nominal Capacity[1]	Module Qty & Size	Approx. Recov-ery[2]	Motor	Power Req'd[3]	Pipe Size			Dimensions			Approx. Ship. Weight
						Feed (NPT)	Product (Tube)	Waste (Tube)	Width	Depth	Height	
	gpd	in.	%	HP	VAC	in.	in.	in.	in	in	in	lb
	L/day	mm	%	KW	VAC	in.	in.	in.	cm	cm	cm	kg
G2-2	4000	2, 4 x 40	50	2	230V/60/3	0.75	0.5	0.5	22	31	56	305
	15140	2, 102 x 1016	50	1.49	380V/50/3	0.75	0.5	0.5	56	79	142	138
G2-3	5800	3, 4 x 40	60	2	230V/60/3	0.75	0.5	0.5	22	31	56	328
	21953	3, 102 x 1016	60	1.49	380V/50/3	0.75	0.5	0.5	56	79	142	149
G2-4	7500	4, 4 x 40	60	2	230V/60/3	0.75	0.5	0.5	22	31	56	351
	28388	4, 102 x 1016	60	1.49	380V/50/3	0.75	0.5	0.5	56	79	142	159
G2-5	9000	5, 4 x 40	75	2	230V/60/3	0.75	0.5	0.5	22	31	56	374
	34065	5, 102 x 1016	75	1.49	380V/50/3	0.75	0.5	0.5	56	79	142	170
G2-6	10000	6, 4 x 40	75	2	230V/60/3	0.75	0.75	0.5	22	31	56	397
	37850	6, 102 x 1016	75	1.49	380V/50/3	0.75	0.75	0.5	56	79	142	180
G2-7	13250	7, 4 x 40	75	3	230V/60/3	0.75	0.75	0.5	30.5	31	56	466
	50151	7, 102 x 1016	75	2.24	380V/50/3	0.75	0.75	0.5	77	79	142	211
G2-8	15000	8, 4 x 40	75	3	230V/60/3	0.75	0.75	0.5	30.5	31	56	489
	56775	8, 102 x 1016	75	2.24	380V/50/3	0.75	0.75	0.5	77	79	142	222
G2-9	17250	9, 4 x 40	75	3	230V/60/3	0.75	0.75	0.5	30.5	31	56	512
	65291	9, 102 x 1016	75	2.24	380V/50/3	0.75	0.75	0.5	77	79	142	232
G2-10	19000	10, 4 x 40	75	3	230V/60/3	0.75	0.75	0.5	30.5	31	56	535
	71915	10, 102 x 1016	75	2.24	380V/50/3	0.75	0.75	0.5	77	79	142	243

[1] Nominal initial capacity based on properly pretreated feed water of 500 ppm TDS, temperature of 77° F (25° C), Silt Density Index below 3.0 and supplying water to atmosphere. Productivity will vary depending on other feed water conditions.

[2] Depending on feed water quality, it may be possible to operate any unit at a higher recovery to reduce operating costs.

[3] Series G2 units are shipped as 230VAC but can also be run at 208VAC/60 Hz/3 Ph.

NOTE: Operational, maintenance and replacement requirements are essential for this product to perform as advertised.

Revised 12/08

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1-800-Culligan

Commercial/Industrial Systems

www.culligancommercial.com = www.culliganindustrial.com

Culligan®

LIMITED WARRANTY

COMMERCIAL/INDUSTRIAL REVERSE OSMOSIS SYSTEMS

You have just purchased one of the finest reverse osmosis water conditioning units made. As an expression of our confidence in Culligan products, your reverse osmosis water conditioning unit is warranted to the original end-user, when installed in accordance with Culligan International Company specifications, against defects in material and workmanship from the date of original installation, as follows:

For a period of ONE YEAR { **The entire reverse osmosis conditioning unit, including the reverse osmosis modules, but excluding the expendable filter cartridges used in this unit.**

If a part described above becomes defective, within the specified period, you should notify your independently operated Culligan dealer and arrange a time during normal business hours for the dealer to inspect the reverse osmosis unit on your premises. Any part found defective within the terms of this warranty will be repaired or replaced by the dealer. You pay only freight from our factory and local dealer charges.

Of course, damage caused by accident, fire, flood, freezing, Act of God, misuse, misapplication, neglect, alteration, installation or operation contrary to our printed instructions, or by the use of accessories or components which do not meet Culligan specifications, is not covered by this warranty.

Our product performance specifications are furnished with each water conditioning unit. TO THE EXTENT PERMITTED BY LAW, CULLIGAN DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING, WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE; TO THE EXTENT REQUIRED BY LAW, ANY SUCH IMPLIED WARRANTIES ARE LIMITED IN DURATION TO THE ONE-YEAR PERIOD SPECIFIED ABOVE FOR THE PARTS DESCRIBED IN THIS LIMITED WARRANTY. As manufacturer, we do not know the characteristics of your water supply or the purpose for which you are purchasing a water conditioner. Please understand that the quality of water supplies may vary seasonally or over a period of time, and that your water usage rate may vary as well. Water characteristics can also change considerably if your water conditioner is moved to a new location. For these reasons, we assume no liability for the determination of the proper equipment necessary to meet your requirements, and we do not authorize others to assume such obligations for us. Further, we assume no liability and extend no warranties, express or implied, for the use of this product on a non-potable water source. OUR OBLIGATIONS UNDER THIS WARRANTY ARE LIMITED TO THE REPAIR OR REPLACEMENT OF THE FAILED PARTS OF THE WATER CONDITIONER, AND WE ASSUME NO LIABILITY WHATSOEVER FOR DIRECT, INCIDENTAL, CONSEQUENTIAL, SPECIAL, GENERAL, OR OTHER DAMAGES, WHETHER FROM CORROSION OR OTHER CAUSES.

CONSUMERS:

Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. Similarly, some states do not allow the exclusion of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Consult your telephone directory for your local independently-operated Culligan dealer, or write Culligan International Company, for warranty and service information.

CULLIGAN INTERNATIONAL COMPANY
One Culligan Parkway
Northbrook, Illinois 60062

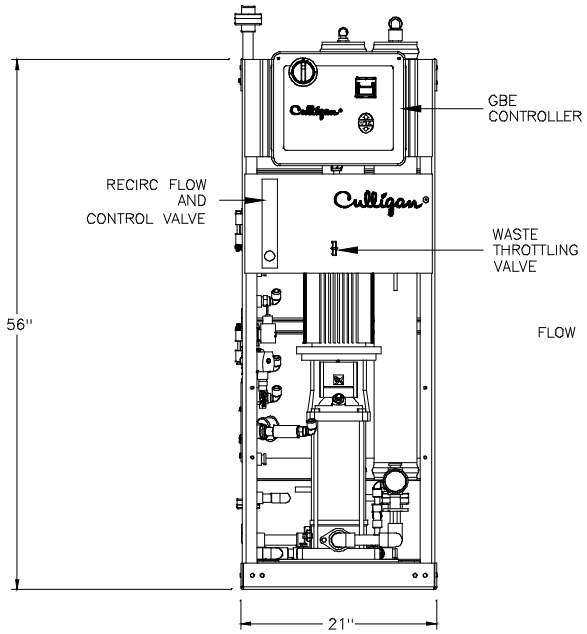
00-8814-18 (Rev. 5/95)

Printed in U.S.A.

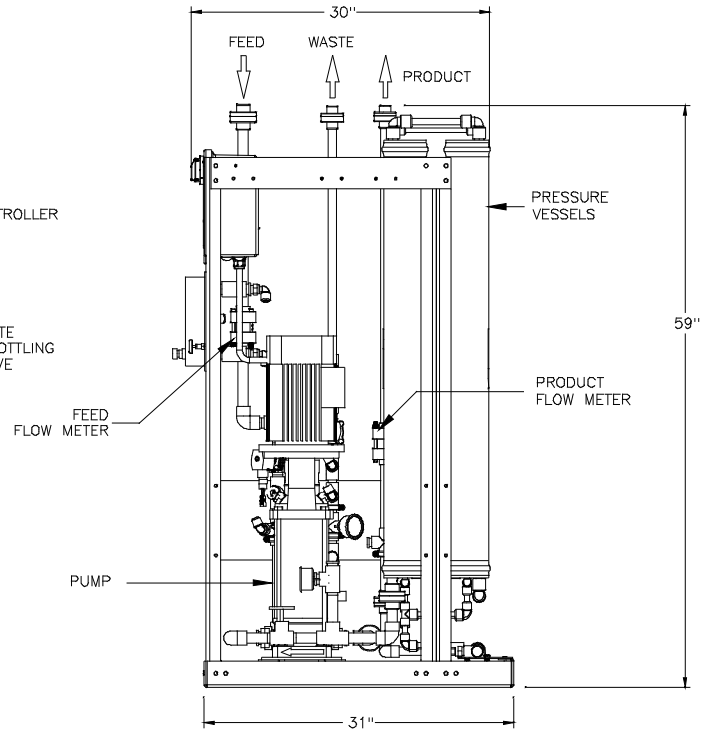
NOTES:

(1) ALL DIMENSIONS ARE GIVEN IN INCHES AND ARE APPROXIMATE.
(2) MODEL G2-4 IS SHOWN.
(3) ALLOW 45 INCHES ABOVE THE UNIT FOR SERVICING AND REPLACEMENT OF MODULES.
(4) PROVIDE A DRAIN CAPABLE OF HANDLING AT LEAST 3.5 GALLONS PER MINUTE. DO NOT MAKE A DIRECT CONNECTION TO THE DRAIN. PROVIDE AN AIR GAP OF AT LEAST FOUR TIMES THE DIAMETER OF THE DRAIN PIPE TO CONFORM TO SANITATION CODES AND TO PERMIT THE OBSERVATION OF THE DRAIN FLOW. DO NOT INSTALL A VALVE IN DRAIN LINE OR USE PIPE SMALLER THAN LISTED IN TABLE.
(5) A 20" – 5 MICRON PREFILTER IS PROVIDED TO BE MOUNTED ON THE INLET OF THE UNIT.

MODEL	NOMINAL CAPACITY (GPM/LPM)	NOMINAL CAPACITY (GPD/m3/h)	MODULE QTY & SIZE	APPROX. SYSTEM RECOVERY %	MOTOR (HP/KW)	ELECTRIC POWER REQUIRED (VAC)	DIMENSIONS L x W x H (INCHES/MILIMETERS)
G2-2HE	2.78	4000	(2), 4" X 40"	50	2 HP	208-230/3/60	22 x 31 x 56
	10.52	0.63			1.49 KW	380-415/3/50	560 x 787 x 1425
G2-3HE	4.03	5800	(3), 4" X 40"	60	2 HP	208-230/3/60	22 x 31 x 56
	15.25	0.91			1.49 KW	380-415/3/50	560 x 787 x 1425
G2-4HE	5.21	7500	(4), 4" X 40"	60	2 HP	208-230/3/60	22 x 31 x 56
	19.72	1.18			1.49 KW	380-415/3/50	560 x 787 x 1425
G2-5HE	6.25	9000	(5), 4" X 40"	75	2 HP	208-230/3/60	22 x 31 x 56
	23.66	1.42			1.49 KW	380-415/3/50	560 x 787 x 1425
G2-6HE	6.94	10000	(6), 4" X 40"	75	2 HP	208-230/3/60	22 x 31 x 56
	26.29	1.58			1.49 KW	380-415/3/50	560 x 787 x 1425



G2-4 SHOWN (FRONT VIEW)



SIDE VIEW

DO NOT SCALE DRAWING
TOLERANCES: ±1/8" UNLESS OTHERWISE NOTED

Let.	Change	By	App	Date

Culligan® ENGINEERED SYSTEMS
ROSEMONT, ILLINOIS

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NAME: SERIES G2 HE (2HE – 6HE) REVERSE OSMOSIS SYSTEMS TECHNICAL DATA SHEET

DETAILED BY:	APP. BY:	SHEET
KMR 11/19/2008		1 OF 1

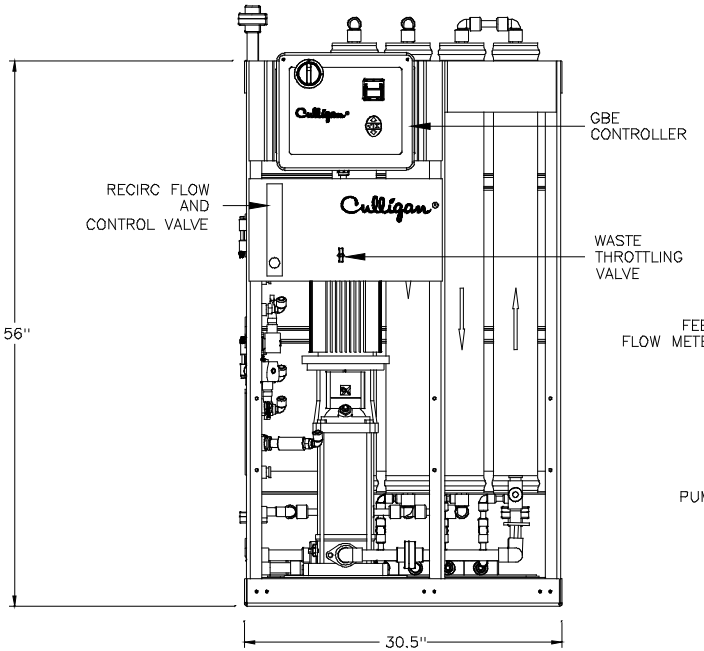
REF. NO.

PART NO. SERIES_G2HE-1

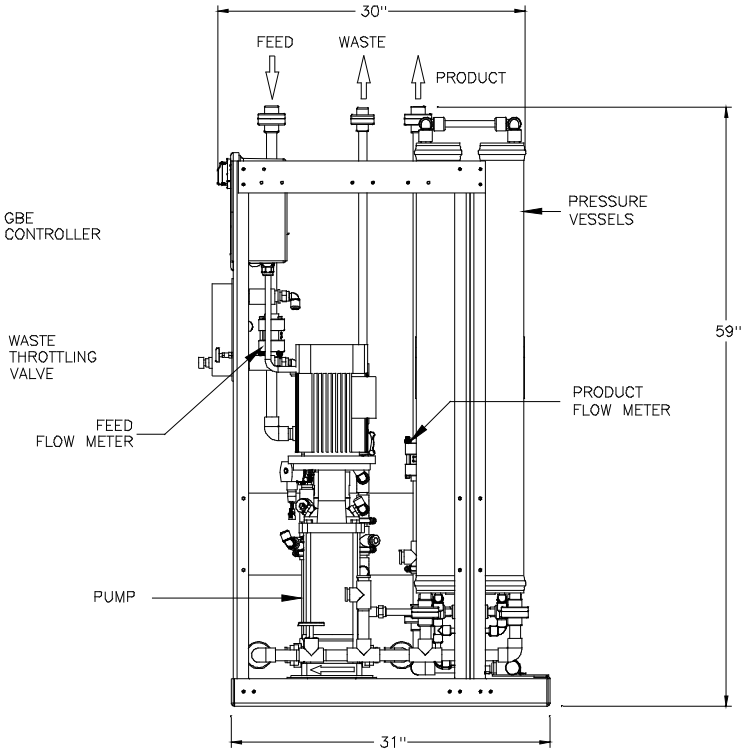
NOTES:

(1) ALL DIMENSIONS ARE GIVEN IN INCHES AND ARE APPROXIMATE.
(2) MODEL G2-8 IS SHOWN.
(3) ALLOW 45 INCHES ABOVE THE UNIT FOR SERVICING AND REPLACEMENT OF MODULES.
(4) PROVIDE A DRAIN CAPABLE OF HANDLING AT LEAST 6.5 GALLONS PER MINUTE. DO NOT MAKE A DIRECT CONNECTION TO THE DRAIN. PROVIDE AN AIR GAP OF AT LEAST FOUR TIMES THE DIAMETER OF THE DRAIN PIPE TO CONFORM TO SANITATION CODES AND TO PERMIT THE OBSERVATION OF THE DRAIN FLOW. DO NOT INSTALL A VALVE IN DRAIN LINE OR USE PIPE SMALLER THAN LISTED IN TABLE.
(5) A 20" - 5 MICRON PREFILTER IS PROVIDED TO BE MOUNTED ON THE INLET OF THE UNIT.

MODEL	NOMINAL CAPACITY (GPM/LPM)	NOMINAL CAPACITY (GPD/m3/h)	MODULE QTY & SIZE	APPROX. SYSTEM RECOVERY %	MOTOR (HP/KW)	ELECTRIC POWER REQUIRED (VAC)	DIMENSIONS L x W x H (INCHES/MILIMETERS)
G2-7HE	9.2	13250	(7), 4" X 40"	75	3 HP	208-230/3/60	30.5 x 31 x 56
	34.83	2.09			2.24 KW	380-415/3/50	775 x 787 x 1425
G2-8HE	10.42	15000	(8), 4" X 40"	75	3 HP	208-230/3/60	30.5 x 31 x 56
	39.43	2.37			2.24 KW	380-415/3/50	775 x 787 x 1425
G2-9HE	11.98	17250	(9), 4" X 40"	75	3 HP	208-230/3/60	30.5 x 31 x 56
	45.35	2.72			2.24 KW	380-415/3/50	775 x 787 x 1425
G2-10HE	13.19	19000	(10), 4" X 40"	75	3 HP	208-230/3/60	30.5 x 31 x 56
	49.95	3			2.24 KW	380-415/3/50	775 x 787 x 1425



G2-8 SHOWN (FRONT VIEW)



SIDE VIEW

DO NOT SCALE DRAWING
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Let.	Change	By	App	Date

Culligan® ENGINEERED SYSTEMS
ROSEMONT, ILLINOIS

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NAME: SERIES G2 HE (7HE - 10HE) REVERSE OSMOSIS SYSTEMS TECHNICAL DATA SHEET

DETAILED BY:	APP. BY:	SHEET
KMR 11/19/2008		1 OF 1

REF. NO.

PART NO. SERIES_G2HE-2