

# MANN+HUMMEL Klar UA System

## (Ultrafiltration)

MANN+HUMMEL Klar UA system uses our proprietary Klar U860 cartridges to provide a safe and consistent water supply. The ultrafiltration system offers a substantial cost savings and low logistical operating requirements.

MANN+HUMMEL Klar UA system includes:

### Standard

- U860, Modified PAN Hollow Fibre Module
- Control Panel with Programmable Logic Controller (PLC)
- Stainless Steel 304 Feed and Back Flush Centrifugal Pumps with Variable Frequency Drive (VFD)
- Rotary Air Blower
- Automatic Control Valves
- Feed, Air and Back Flush Pressure Gauges
- Rota Flow Meter
- Stainless Steel Frame
- Sch 80 PVC Piping, Hoses

### Optional

- Touch Screen Display
- Data Logging Module



### U860 Membrane Cartridge Specifications

Structure	Hollow Fibre
Recovery	90 - 95%
Surface Area (nominal)	45 m <sup>2</sup> (480 ft <sup>2</sup> )
Product Turbidity	< 0.1 NTU*
Membrane Material	Hydrophilic Modified PAN
Cap & Socket	Glass Reinforced ABS
Housing Material	uPVC
Potting	Epoxy

### Klar UA System Cleaning Process and Parameter

Cleaning Temperature (max)	45°C
Chlorine Cleaning (max)	100 ppm
pH Range	2 - 9
Back Flush Duration	30 - 60 seconds

### Klar UA System Operating Process and Parameter

Flow Type	Out to In
Filtration	Dead End Mode
Re-generation	Air Scouring with Back Flushing
Operating Temperature (max)	45°C
Operating TMP (max)	Feed (bar) - 0.8 Back Flush (bar) - 1.5

\*Subject to feed water quality.

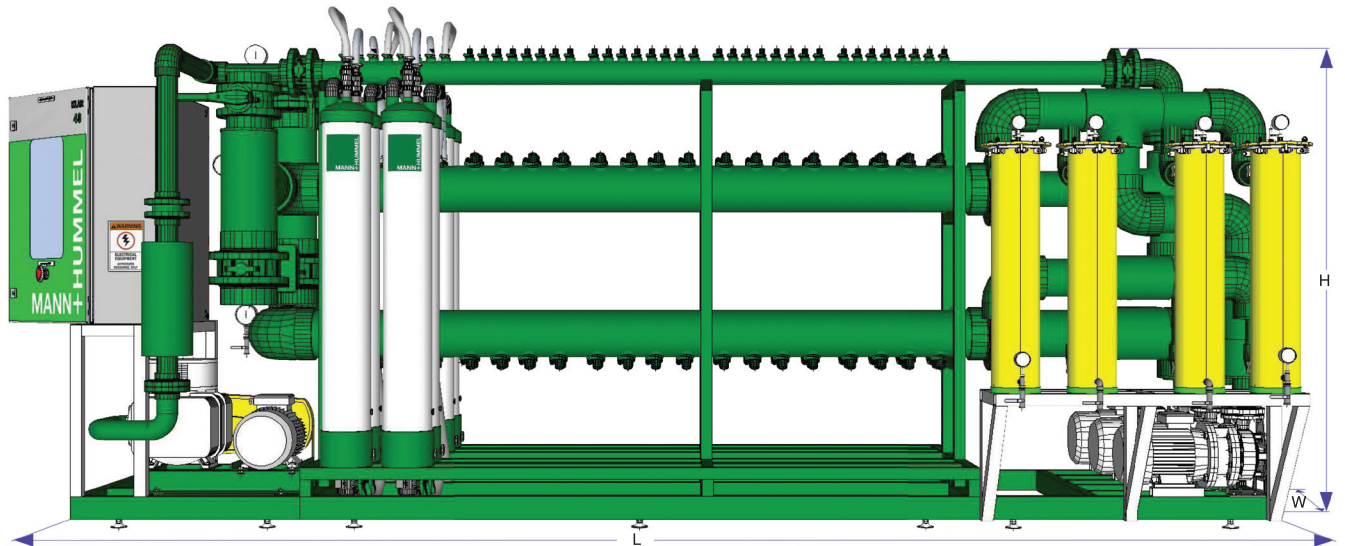


## Klar UA System and Operating Configuration

Model	K01-08UA	K04-08UA	K10-08UA	K20-08UA	K30-08UA	K40-08UA	K50-08UA
No. of Cartridges	1	4	10	20	30	40	50
Electrical Power	230V / 50Hz / 2A; 1 Phase	230V / 50Hz / 12A; 1 Phase	400V / 50Hz / 19A; 3 Phase	400V / 50Hz / 23A; 3 Phase	400V / 50Hz / 29A; 3 Phase	400V / 50Hz / 35A; 3 Phase	400V / 50Hz / 43A; 3 Phase
Dimension L x W x H (cm)	80 x 70 x 180	130 x 80 x 230	300 x 125 x 225	460 x 125 x 225	420 x 120 x 225	540 x 140 x 233	660 x 165 x 233
System Weight (kg)	80	300	750	1400	2200	2800	3500
Flow Rate (m <sup>3</sup> /h)*	2	8	20	30	45	60	75

The information provided during the print is accurate and reliable, however it should not be used as a warranty in any other cases. MANN+HUMMEL reserves the right to make any changes to the information provided above without prior notice.

\*Subject to feed water quality



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