

# MODULAR FRAGMENTED ICE SYSTEMS

## MHGA (Modular Hot Gas Ammonia)



Single Modular with End Panel Kit



Modular Skid Package (4)

The Vogt Turbo MHGA (Modular Hot Gas Ammonia) are microprocessor controlled ice modules that can be combined to operate alone or as part of a sequenced modular ice making array for 25 tons to over 300 tons of ice per day. This ice discharges in 1/4" to 3/4" plate fragmented ice which is moist on the surface but does not readily clump in storage. A single master control panel provides network accessibility for precisely monitoring and controlling ice making operations.

### MHGA Standard Features:

- \* Ammonia Operation (Liquid Recirculated or Flooded)
- \* Aluminum Stucco Embossed Front and Rear Panels
- \* Voltage - 230v or 460v.,3p.,60hz. Power
- \* Voltage - 120v.,1p.,60hz. Controls
- \* Allen Bradley Micrologics PLC
- \* Stainless Steel Evaporator Piping
- \* Stainless Steel Upper and Lower Frame

### MHGA Options:

- \* Voltage - 400v.,3p.,50hz. Power
- \* Voltage - 575v.,3p.,60hz. Power
- \* Stainless Steel Front and Rear Panels
- \* End Panel Kit (aluminum or stainless)
- \* Power monitor (for 60hz.)
- \* AB Ethernet Interface Module
- \* Split Crating for Container/LTL Loading
- \* Canadian Registration Number (CRN)
- \* Export crating (ISPM-15 Rated)
- \* Automation Direct PLC (Module only)
- \* RS Control Valves
- \* Base Frames / Headers for Skidding up to 6 Modules
- \* Master Panels for Control of up to 18 Modules
- \* Hot Gas/Liquid Strainer/Defrost Pressure Reg Kit (**LR**)
- \* Liquid Line Strainer/Defrost Pressure Regulator (**Flooded**)
- \* Surge Drum (**Flooded**)

CAPACITY TABLE, TONS OF ICE PER 24 HOURS AT SUCTION TEMPERATURE 0°F (21C.) (LR or Flooded)

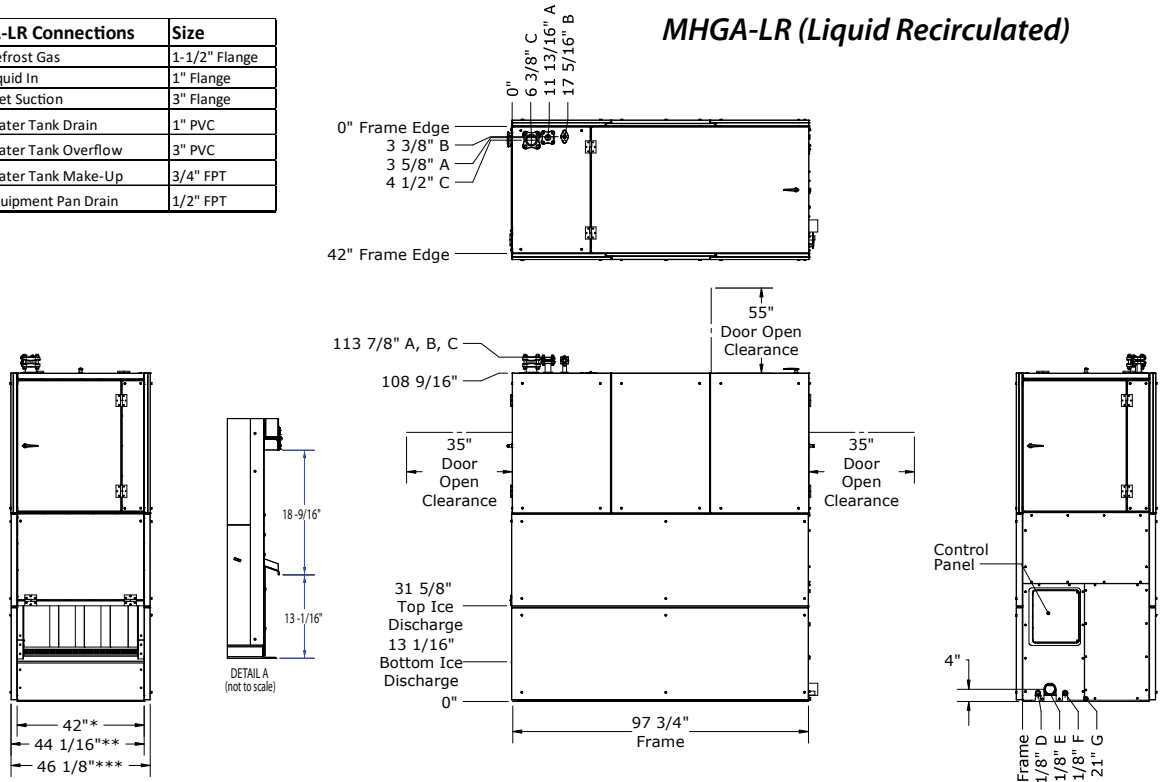
Water Temperature	Capacity (U.S Tons/24hrs)		Refrigeration Capacity (TR)		Capacity (Metric Tons/24hrs)		Refrigeration Capacity (KW)	
	Ice Thickness		Ice Thickness		Ice Thickness		Ice Thickness	
	1/4"	1/2"	1/4"	1/2"	1/4"	1/2"	1/4"	1/2"
80 °F	28.3	22.8	49.7	34.6	25.7	20.7	174.9	121.8
70 °F	29.6	24.0	49.7	34.6	26.9	21.8	174.9	121.8
60 °F	31.1	25.3	49.7	34.6	28.3	23.0	174.9	121.8
50 °F	32.7	26.7	49.7	34.6	29.7	24.3	174.9	121.8

Capacity ratings based on central plant operation with 60 second harvest. Consult factory for dedicated compressor ratings.



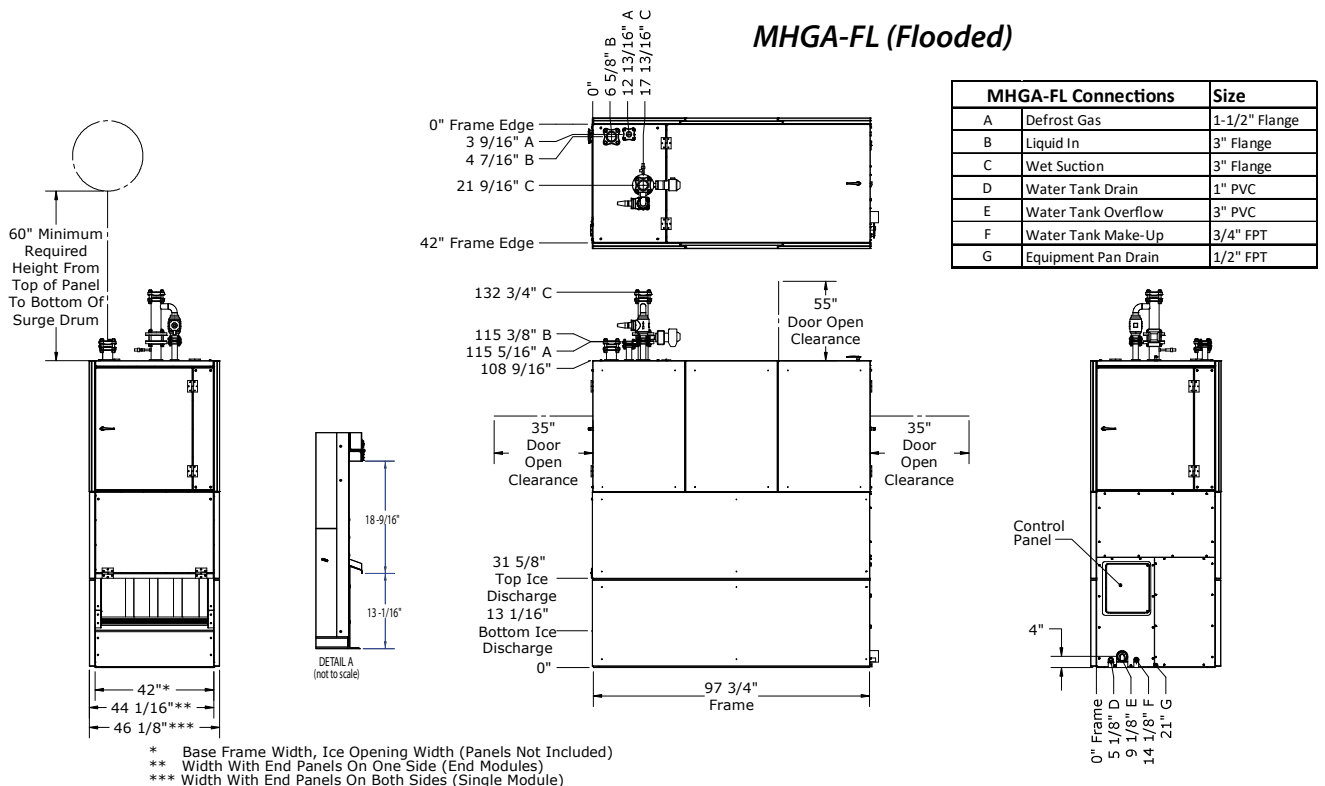
MHGA-LR Connections	Size	
A	Defrost Gas	1-1/2" Flange
B	Liquid In	1" Flange
C	Wet Suction	3" Flange
D	Water Tank Drain	1" PVC
E	Water Tank Overflow	3" PVC
F	Water Tank Make-Up	3/4" FPT
G	Equipment Pan Drain	1/2" FPT

### MHGA-LR (Liquid Recirculated)



\* Base Frame Width, Ice Opening Width (Panels Not Included)  
\*\* Width With End Panels On One Side (End Modules)  
\*\*\* Width With End Panels On Both Sides (Single Module)

### MHGA-FL (Flooded)



MHGA-FL Connections	Size	
A	Defrost Gas	1-1/2" Flange
B	Liquid In	3" Flange
C	Wet Suction	3" Flange
D	Water Tank Drain	1" PVC
E	Water Tank Overflow	3" PVC
F	Water Tank Make-Up	3/4" FPT
G	Equipment Pan Drain	1/2" FPT

\* Base Frame Width, Ice Opening Width (Panels Not Included)  
\*\* Width With End Panels On One Side (End Modules)  
\*\*\* Width With End Panels On Both Sides (Single Module)

### Operating Conditions

The ice machine shall not be subjected to an atmospheric temperature lower than 50 °F. (10 °C.) nor higher than 90 °F. (32 °C.) without effect on performance. Water for condensing or ice making purposes shall be non-corrosive. The water shall be at a constant pressure no less than 30lbs. at the ice machine location. The condition of the water to make satisfactory ice shall be the responsibility of the purchaser.