

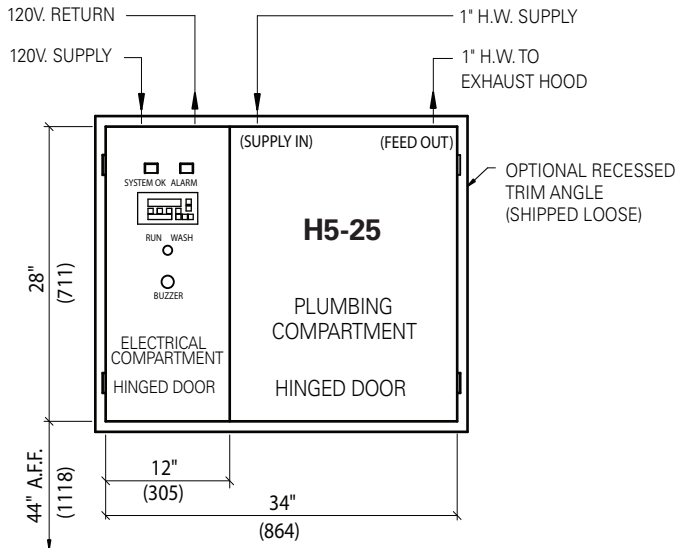
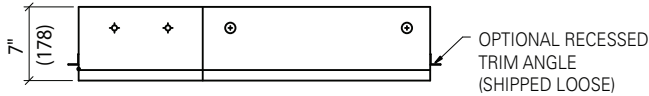


## Model HDS5-25

Duct Sump Hot Water Wash Control Panel



HDS5-25 - Duct Sump Water Wash Control Panel



NOTE: Panel dimension may change depending on which options are chosen. Please consult factory.

## Model Index

HDS5-25 - Hot water wash

Base Model	Optional Selects	Mandatory Selects
HDS5-25	-24V -2SQ -3SQ -4SQ -24HR -BFP -BMS -EFO -RM	-LT -TPG -5GAL -FP -FPR -VB -TR -WHA -S -R

Example: HDS5-25-2SQ-BFP-BMS-S

## Modifications / Options:

Model Suffix	Description
S	Surface mount on wall
R	Recessed mount in wall
24V	24 Volt Interlock
2SQ	Two Sequence wash
3SQ	Three Sequence wash
4SQ	Four Sequence wash
24HR	24 Hour Timer
BFP	Back Flow Preventor
BMS	Building Management System
EFO	Exhaust Fan On
RM	Remote Monitoring
LT	Hood light switch
TPG	Temperature / Pressure Gauge
5GAL	5 Gallon Detergent Reservoir
FP	Fire Pull Station
FPR	Fire Pull Station Remote
VB	Vacuum Breaker
TR	Transformer
WHA	Water Hammer Arrestor

Project:

Location:

Submitted by:

Date:

## Application

The H5-25 or HC5-25 water wash control panel is to be used with Halton series water wash exhaust hoods and duct sumps. Each panel is custom build to meet the specific functional and operational requirements of the system design.

## Consultant Specification

The Dump Sump water wash control panel shall be a Halton HDS5-25. The panel Can provide automatic operation of the exhaust and supply fans in addition to the run & wash cycles of the exhaust hood (optional).

The panel shall be complete with a separate electrical and plumbing compartment.

The panel shall be provided with Run/Wash selector switch, wash timer, wash time delay, and a microprocessor for system running status and alarm conditions. A terminal strip shall be provided for field wiring.

The panel shall contain hand shut off valves, hot and cold water (if applicable) solenoid valves, hot and cold water (if applicable) pressure reducing valves complete with line strainers. Control panels for hot and cold water shall contain a cold water pressure gauge.

The panel shall be supplied with a detergent pump, low level detergent alarm, and one container of "G-Wiz" detergent.

The panel shall be constructed from heavy gauge stainless steel with hinged lift of doors, have a front locking screw, and be available for remote surface or recessed mounting.

The entire panel shall be completely factory pre assembled, prewired and tested ready for final mechanical and electrical connections.

## Water and Detergent Requirements

Even though hot water connection sizes at panel and exhaust hood sections are shown, supply lines to panel and exhaust hood sections should be sized to supply hot water as follows:

Exhaust Hood Model	Hot Water Per Hour (per linear foot)		Detergent Per Gallon Hot Water	Average Hot Water Wash Cycle
	US Gallons	Liters		
H-CM	0.5	1.9	1/4 oz	5 mins.

Model	Hot Water Hot	Max. Hood Length Cyclo Maze Wash	
		Feet	MM
HDS5-25	x	40	12182

## Sequence of Operation

- 1) Turn selector switch to run or auto by BMS or other panels.
  - Exhaust fan energized (optional)
  - Make-up air fan energized (optional)
- 2) Turn selector switch to wash
  - Exhaust fan de-energized (optional)
  - Make-up air fan de-energized (optional)
  - Wash ends after preset time
- 3) Fire condition
  - Switch at fire panel closes
  - Exhaust fan stops, if required (optional)
  - Make-up air fan stops (optional)
  - Hot water turns on

## Water Supply

Supply lines must be sized to suit Halton Duct Sump water consumptions (refer to chart below). Minimum recommended water inlet pressure to the panel to be 40 PSIG (275 kPa). Panel mounted pressure reducing valve regulates the water pressure at the exhaust hood connection. Hot water pressure in duct sump should be 20 PSIG. Recommended hot water temperature to be 140°F (60°C). Minimum 120°F (49°C).

## Electrical Requirements

Power supply to be 120V/1/60. Maximum control panel amperage during wash cycle is 1 amp.

## Trade Notes

MECHANICAL: Supply and install back flow preventors, antisiphon valves or vacuum breakers as required by local codes.

ELECTRICAL: Supply and install all control field wiring and electrical devices required, outside the control panel. Field wiring diagram available on request.



Continuous improvement is a Halton policy, therefore specifications and designs are subject to change without notice.



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