

Date: 20100204

Upper Assembly

Qty	PN	Distributor	Description
3	91400A106	McMaster-Carr	machine screw, 4-40 x 1/4", pan-head, philips
4	91400A112	McMaster-Carr	machine screw, 4-40 x 7/16", pan-head, philips
3	5577K31	McMaster-Carr	o-ring, Viton (A60), #010, 1/4" ID, 3/8" OD
1	5577K13	McMaster-Carr	o-ring, Viton (A60), #033, 2" ID, 2-1/8" OD
1	5577K131	McMaster-Carr	o-ring, Viton (A60), #131, 1-11/16" ID, 1-7/8" OD
10	NT43-889	Edmunds Optics	window, Borofloat, 10mm
4	92067A029	McMaster-Carr	allen-nut, 1/4-28
4	93490A029	McMaster-Carr	washer, brass
2	12841	Clippard	10-32M to 1/16 hose barb
2.0"	7237K18	McMaster-Carr	1/4" OD Aluminum tubing (Alloy 3003)
1	YSI44031		thermistor
1	C3WV3LEDPCB		LED board
1	C3WV3UA01		inlet tube - hemisphere seal plate
1	C3WV3UA02		integrating hemisphere
1	C3WV3UA03		lens plate
1	C3WV3UA04		top plate

Lower Assembly

Qty	PN	Distributor	Description
10	91400A106	McMaster-Carr	machine screw, 4-40 x 1/4", pan-head, philips
2	92313A106	McMaster-Carr	socket set screw, 4-40 x 1/4"
4	92311A564	McMaster-Carr	set screw, 1/4-28 x 1"
2	90145A553	McMaster-Carr	dowel, 0.25" dia. x 3.0"
10	9396K15	McMaster-Carr	o-ring, Silicone (A70), #010, 1/4" ID, 3/8" OD
2	12841	Clippard	10-32M to 1/16" hose barb
2	35475K282	McMaster-Carr	thin film heater, 28Vac, 5W / sq. in., 1/2" x 2"
5	91771A098	McMaster-Carr	machine screw, 3-48 x 5/8", flat-head, philips
10	18801086-24V	Asco	solenoid, 24Vdc, w/mounting hardware
10	88118801	Asco	solenoid cable assembly
5	92510A008	McMaster-Carr	spacer, aluminum, #4, 0.115" ID, 0.188" OD, 0.219" L
5	92510A692	McMaster-Carr	spacer, aluminum, #4, 0.115" ID, 0.188" OD, 0.25" L
5	91772A114	McMaster-Carr	machine screw, 4-40 x 7/8", pan-head, philips
1	C3WV3DETPCB		detector board
1	C3WV3MCUPCB		MCU board
1	C3WV3IOPCB		I/O board
1	C3WV3LA01		bottom mounting flange
1	C3WV3LA02		detector mounting flange
1	C3WV3LA03		detector flange gasket
5	C3WV3LA04		spacer, aluminum, #4, 0.115" ID, 0.188" OD, 0.058" L

Lower Cover (Box) Assembly

Qty	PN	Distributor	Description
1	NVLH-10-2P-3	Beswick	Needle valve
1	MH-1012	Beswick	10-32M to 1/16" hose barb
1	MHF-1012	Beswick	10-32F to 1/16" hose barb
2	MBHA-1012	Beswick	bulk-head, 1/16" hose barb
1	MHUR-1332-1012	Beswick	bulk-head, 1/16" hose barb to 1/8" hose barb
2	12841	Clippard	10-32M to 1/16" hose barb
2	0035-2	Clippard	10-32 plug
1	AWM43600V	Mouser	mass flow sensor
1	HB15CKW01-5C-CB	Mouser	pushbutton switch (on-on), illuminated
1	DPM1AS-BL	Digikey	DVM, 3.5 digit, +/- 200mV
1	172-009-202R001	Digikey	connector, DM9F (serial I/O)
2	160-000-013R031	Digikey	D-connector 4-40 female screwlock assembly
1	39-01-2021	Digikey	connector, Molex Mini-Fit Jr. (power in)
2	39-00-0220	Digikey	Molex Mini-Fit Jr. pins
1	DF11-10DEP-2C	Digikey	connector, Hirose, DF11 (upper assembly signals)
10	DF11-EP2428PCA	Digikey	DF11 pins
2	91099A167	McMaster-Carr	machine screw, 4-40 x 1/2", flat-head, philips
24	91400A106	McMaster-Carr	machine screw, 4-40 x 1/4", pan-head, philips
1	C3WV3BX01		flow sensor manifold
2	C3WV3BX02		box side panels
1	C3WV3BX03		box front panel
1	C3WV3BX04		box back panel
1	C3WV3BX05		box base plate