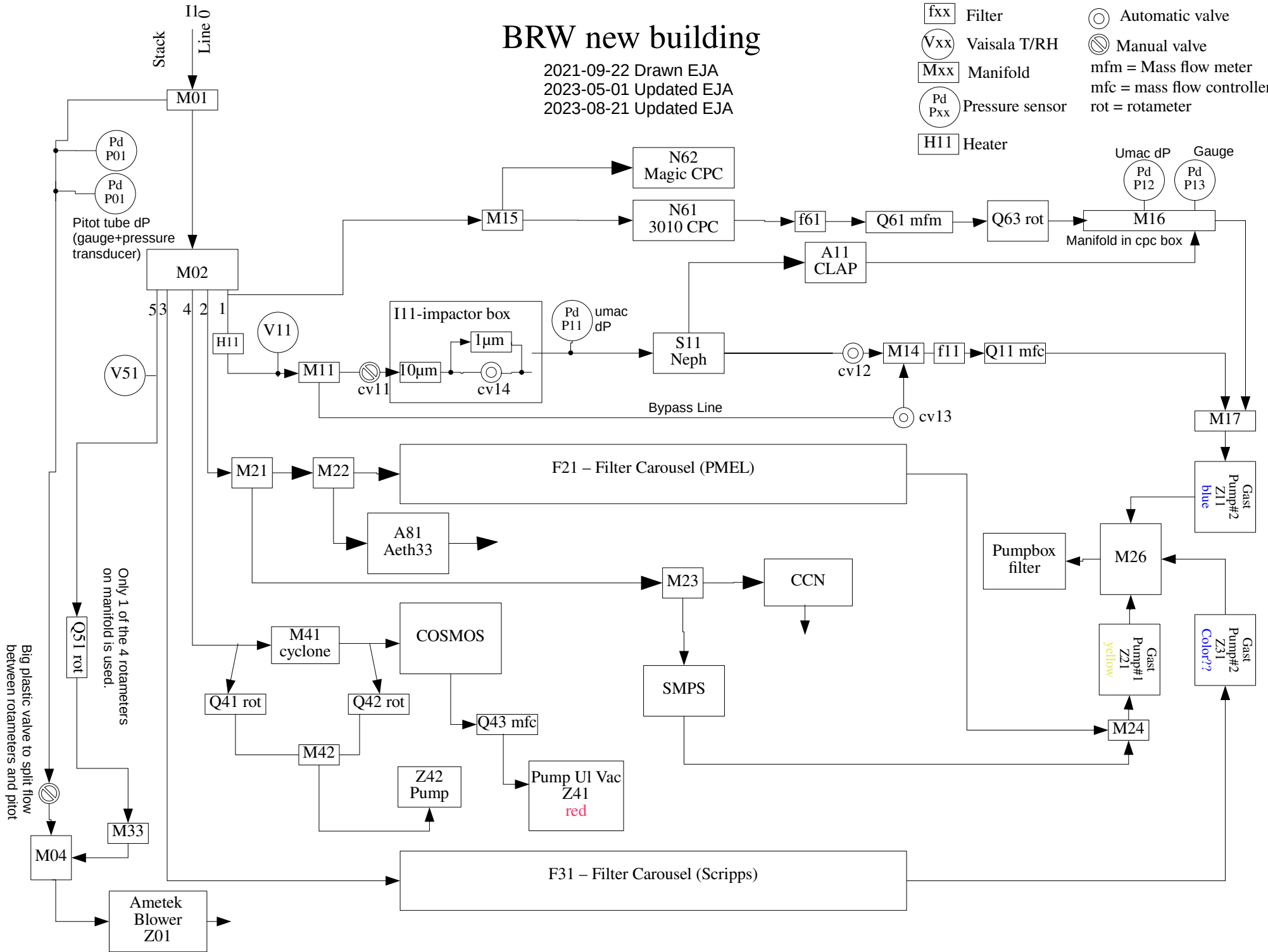


BRW new building

2021-09-22 Drawn EJA
 2023-05-01 Updated EJA
 2023-08-21 Updated EJA

- fxx Filter
- Vxx Vaisala T/RH
- Mxx Manifold
- Pd
Pxx Pressure sensor
- H11 Heater
- ⊙ Automatic valve
- ⊗ Manual valve
- mfm = Mass flow meter
- mfc = mass flow controller
- rot = rotameter

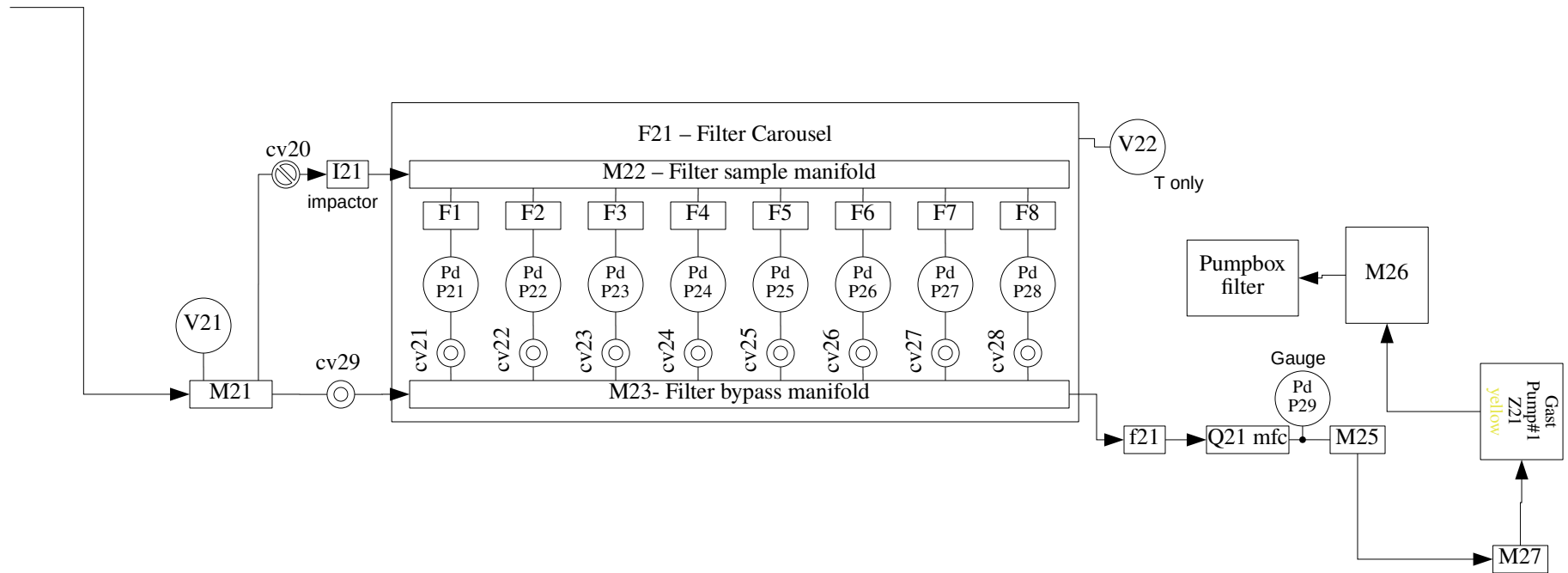


BRW Filter rack

2023-05-01 Drawn EJA
2021-11-10 Updated EJA

- fxx Filter
- Vxx Vaisala T/RH
- Mxx Manifold
- Pd
Pxx Pressure sensor
- ⊙ Automatic valve
- ⊗ Manual valve
- mfm = Mass flow meter
- mfc = mass flow controller

On the next page the boxes for the two filter racks are simplified. This page shows the flow components of the filter racks from inlet line to pumpbox. PMEL and Scripps racks should be identical so only one is shown here.



Bap_B_3W -> BaS_A11
 Bap_G -> BaO_A11 WD -> WD_X3
 Bap_G_3W -> BaL_A11 WS -> WS_X3
 Bap_R_3W -> BaC_A11
 CN_control -> N_N61
 dP_F1_hPa -> Pd_P21
 dP_F2_hPa -> Pd_P22
 dP_F3_hPa -> Pd_P23
 dP_F4_hPa -> Pd_P24
 dP_F5_hPa -> Pd_P25
 dP_F6_hPa -> Pd_P26
 dP_F7_hPa -> Pd_P27
 dP_F8_hPa -> Pd_P28
 dP_neph_imp_hPa -> Pd_P11
 dp_Pitot_hPa -> Pd_P01
 dP_sys_vac -> Pd_P12
 Flags -> F_aer
 P_refNeph -> P_S11
 Q_analyzer_lpm -> Q_Q11
 Q_filter_lpm -> Q_Q21
 Q_CN_lpm -> Q_Q61
 RefBbsp_B -> BbsB_S11
 RefBbsp_G -> BbsG_S11
 RefBbsp_R -> BbsR_S11
 RefBsp_B -> BsB_S11
 RefBsp_G -> BsG_S11
 RefBsp_R -> BsR_S11
 RH_Inlet -> U_V11
 RH_Inlet_filter -> U_V21
 RH_refInlet -> Uu_S11
 RH_refNeph -> U_S11
 T_Inlet -> T_V11
 T_pumpbox_degC -> T_V01
 T_refInlet -> Tu_S11
 T_refNeph -> T_S11
 T_sample_degC -> T_V11
 T_filt_rack_degC -> T_V22
 T_uMAC_degC -> T_X1
 V_uMAC_V -> V_X1

BaC_A11 -> Bap_R_3W
 BaL_A11 -> Bap_G_3W
 BaO_A11 -> Bap_G
 BaS_A11 -> Bap_B_3W
 BbsB_S11 -> RefBbsp_B
 BbsG_S11 -> RefBbsp_G
 BbsR_S11 -> RefBbsp_R
 BsB_S11 -> RefBsp_B
 BsG_S11 -> RefBsp_G
 BsR_S11 -> RefBsp_R
 F_aer -> Flags
 N_N61 -> CN_control
 P_S11 -> P_refNeph
 Pd_P01 -> dp_Pitot_hPa
 Pd_P11 -> dP_neph_imp_hPa
 Pd_P12 -> dP_sys_vac
 Pd_P21 -> dP_F1_hPa
 Pd_P22 -> dP_F2_hPa
 Pd_P23 -> dP_F3_hPa
 Pd_P24 -> dP_F4_hPa
 Pd_P25 -> dP_F5_hPa
 Pd_P26 -> dP_F6_hPa
 Pd_P27 -> dP_F7_hPa
 Pd_P28 -> dP_F8_hPa
 Q_Q11 -> Q_analyzer_lpm
 Q_Q61 -> Q_CN_lpm
 T_S11 -> T_refNeph
 T_V01 -> T_pumpbox_degC
 T_V11 -> T_Inlet, T_sample_degC
 T_X1 -> T_uMAC_degC
 Tu_S11 -> T_refInlet
 U_S11 -> RH_refNeph
 U_V11 -> RH_Inlet
 Uu_S11 -> RH_refInlet
 V_X1 -> V_uMAC_V
 WD_X3 -> WD
 WS_X3 -> WS