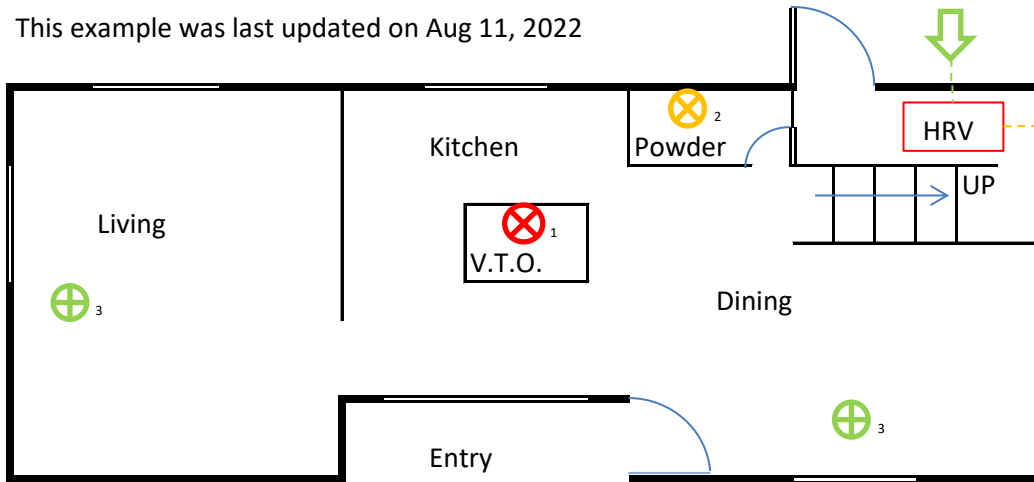


This example was last updated on Aug 11, 2022

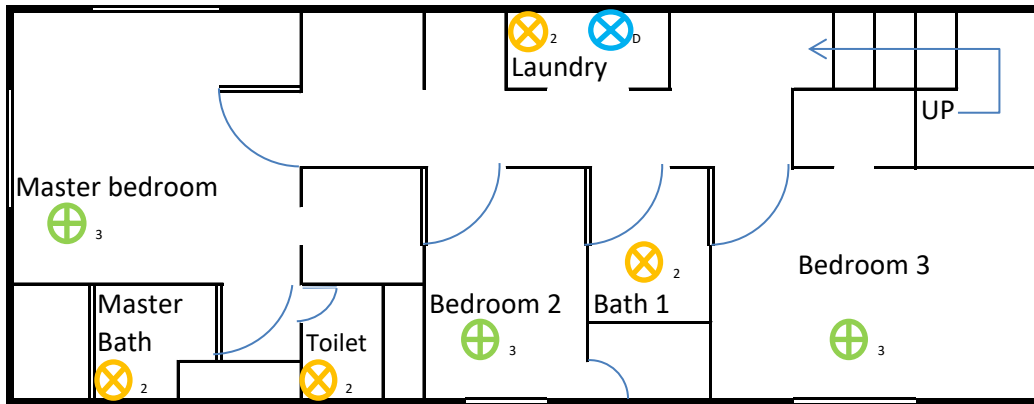


Continuously operating local exhaust and whole house ventilation using Heat Recovery Ventilator(HRV) (SRC M1505.4.4 and M1505.4.1.4)

HRV equipment schedule

Make	BestHRV
Model	Energysaver
Air flow supply Min.	60 CFM
Air flow exhaust Min.	100 CFM
# of air flow setting	2

First floor



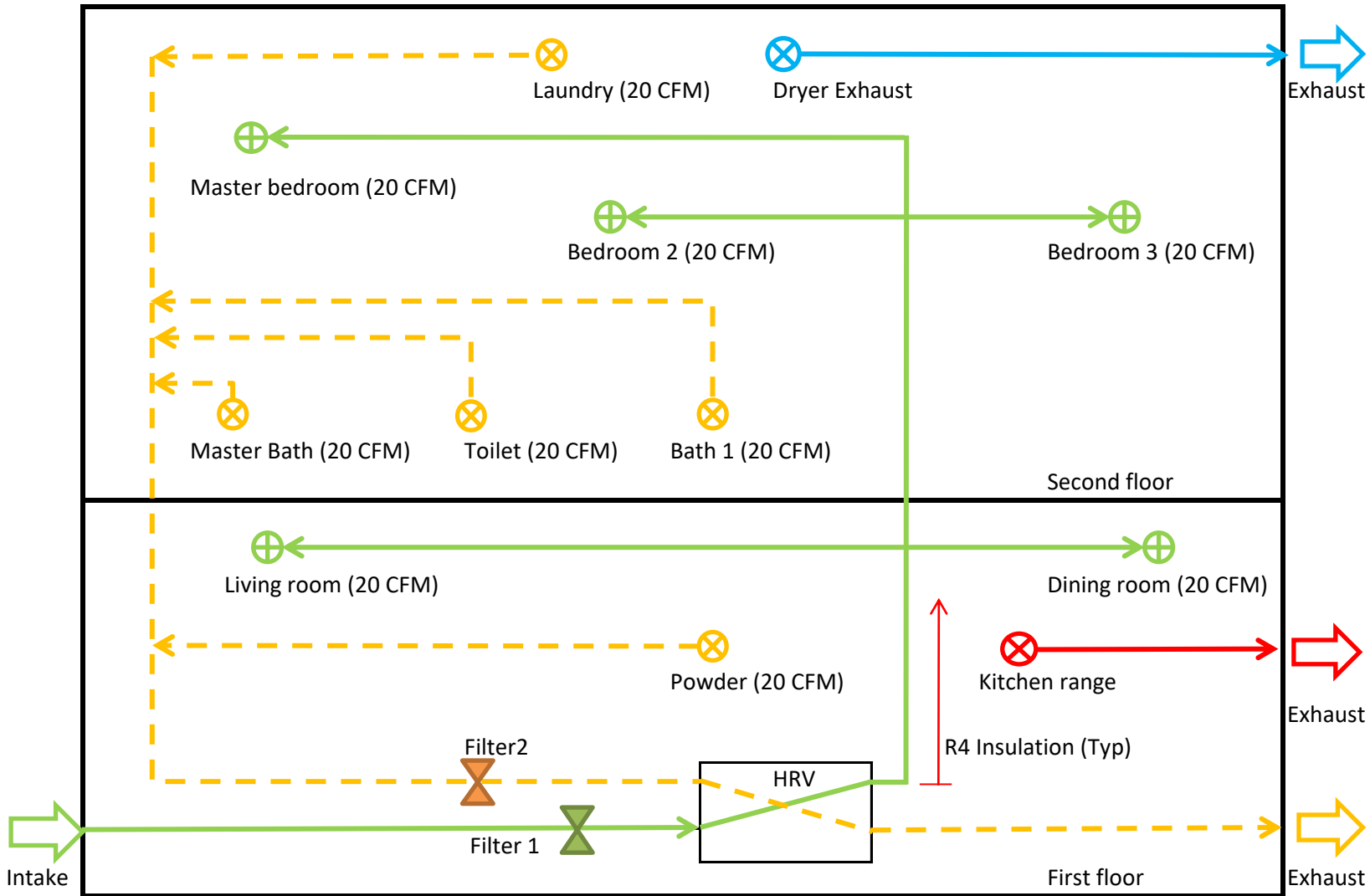
Supply and exhaust air grills

	CFM	Operation	Grill type
⊗ _k	100 Min.	Intermittent	Exhaust
⊗ ₂	Per dwg.	Continuous	Exhaust
⊕ ₃	Per dwg.	Continuous	Supply
⊗ _D	Per Mfr.	Intermittent Cloth dryer	Exhaust

Second floor

Ventilation notes:

1. Local exhaust ventilation air flow rate is based on continuous operation per SRC table M1505.4.4 or SMT table 403.3.
2. Whole house ventilation is provided via Heat Recovery Ventilator(HRV) that operates continuously, per SRC table M1505.4.3(1),(2),(3) or SMC table 403.8.1.
3. Exhaust outlet location shall be per SRC section R303.5.2.
4. Fresh outdoor air intake location shall be per SRC section R303.5.1 and M1507.3.7.3.
5. The HRV shall operate continuously at a speed to provide min. exhaust rate 100 CFM and min fresh outdoor air supply rate 60 CFM.
6. Kitchen range exhaust and dryer exhaust are ducted and vented separately from HRV.
7. Testing and commissining shall be performed and documented per SRC M1505.4.1.6 or SMC 403.4.6.6. Present the documents to SDCI inspector when requested.
8. Ventilation controls: Each room having an exhaust grill is provided with 20, 40 or 60 minute timer switch that allows HRV to operate at high speed.



HRV duct connection sketch

Duct diameter	
Supply, From outdoor to HRV	5" Round
Supply, From HRV to bldg.	6" Round
Exhaust, From bldg. to HRV	6" Round
Exhaust, HRV to outdoor	5" Round
Drain conn, HRV to drain	2-1/2"
Filters, F1 & F2	Merv 8

Air balancing

Supply	CFM	Exhaust	CFM
Living room	20	Powder Room	20
Dining room	20	Master Bath	20
Master bedroom	20	Toilet	20
Bedroom 2	20	Bath 1	20
Bedroom 3	20	Laundry	20
	100		100