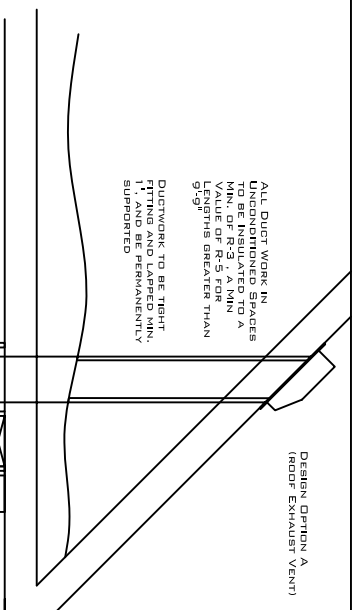


## EXHAUST FAN DETAILS



DUCTWORK SHALL BE NON-COMBUSTIBLE, CORROSION-RESISTANT DIRECTLY OUTSIDE WITHOUT CONNECTION TO OTHER FANS OR DUCTS

DUCTWORK TO BE TIGHT FITTING AND LAPPED MIN. 1", AND BE PERMANENTLY SUPPORTED

ALL DUCT WORK IN UNCONDITIONED SPACES TO BE INSULATED TO A MIN. OF R-3. A MIN. VALUE OF R-3 FOR 5/8" THICK GREATER THAN

DUCTWORK TO BE SIZED ACCORDING TO THE FOLLOWING TABLE WHERE TOTAL LENGTH IS 29'-6" WITH THE USE OF 4 ELBOWS OR LESS HOWEVER SHALL NOT BE SMALLER THAN RECOMMENDED BY THE MANUFACTURER

TAPE ALL JOINTS

FAN TO BE LOCATED 24" ABOVE RANGE, AT LEAST AS WIDE AS THE RANGE

MIN. CAPACITY OF 100 CFM

FAN TO BE HVJ CERTIFIED AND 3.5 SONES OR LESS

DUCTWORK FOR RANGE HOODS SHALL BE INSULATED TO A MIN. OF R-3. GREASE FILTER AT THE INTAKE

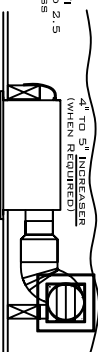
EXHAUST OUTLET C/W SELF-CLOSING SCREEN

OPTION B (WALL EXHAUST VENT)

MIN. DEPTH OF 17"

ALWAYS CONSULT MANUFACTURERS INSTRUCTION FOR FAN SPECIFIC DETAILS FOR FURTHER INFORMATION CONSULT LATEST EDITION OF O.B.C.

## EXHAUST FAN DETAILS



PRIMARY EXHAUST FAN TO BE CONTROLLED BY MANUAL SWITCH, CENTRALLY LOCATED WITH THE WORDS "VENTILATION FAN"

FAN TO BE HVJ CERTIFIED AND 2.5 SONES OR LESS

TOTAL LENGTH OF PIPE EXCEEDS 59' AND 4 ELBOWS

DUCTWORK TO BE TIGHT FITTING AND LAPPED MIN. 1" AND BE PERMANENTLY SUPPORTED

TAPE ALL JOINTS AND DUCTWORK TO EXHAUST

ALL DUCT WORK IN UNCONDITIONED SPACES TO BE INSULATED TO A MIN. OF R-3

ALWAYS CONSULT MANUFACTURERS INSTRUCTION FOR FAN SPECIFIC DETAILS FOR FURTHER INFORMATION CONSULT LATEST EDITION OF O.B.C.

## CONTROL SWITCHES



PRIMARY EXHAUST FAN CONTROL TO BE GENERALLY BY MANUAL SWITCH, CENTRALLY LOCATED WITH THE WORDS "VENTILATION FAN"

LOCATED IN THE CENTER OF THE DIRECT SUNLIGHT, AND BE KEPT AWAY FROM SOURCES OF HEAT 3'-11"

CO DETECTOR SHALL BE WIRED TO TRIP THE EXHAUST FAN. CARBON MONOXIDE DETECTORS SHALL BE WIRED TO TRIP THE EXHAUST FAN AND OTHER DETECTORS

## HRV NOTES AND DUCT SIZING

HRV EXHAUST DUCT SIZING (LESS THAN 40' AND FOUR (4) ELBOWS)		
NUMBER OF BEDROOMS	SHOOTH PIPE	FLEX PIPE
2	125 MM (5")	150 MM (6")
3	125 MM (5")	150 MM (6")
>3	PART 6 DESIGN	PART 6 DESIGN
HRV SUPPLY DUCT SIZING (LESS THAN 63' AND 8 FITTINGS FROM THE OUTDOOR HOOD TO ANY SUPPLY REGISTER)		
NUMBER OF BEDROOMS	SHOOTH OR FLEX PIPE	SHOOTH OR FLEX PIPE
2	125 MM (5")	150 MM (6")
3	125 MM (5")	150 MM (6")
>3	PART 6 DESIGN	PART 6 DESIGN
TRUNK DUCTS		
SPACE SERVED	1 & 2 BRNH DWELLINGS	3 & 4 BRNH DWELLINGS
MASTER BDRM	100 MM (4")	100 MM (4")
LIVING AREA	75 MM (3")	100 MM (4")

OUTDOOR AIR SUPPLIED TO EACH BEDROOM AND PRINCIPAL LIVING AREA, MINIMUM 55% SENSIBLE HEAT RECOVERY EFFICIENCY, FREE FLOW OF CONDENSATE IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS, OR IN ABSENCE A DRAIN OF MIN. 1/2" DIA TRAY IN DIRECTION OF FLOW



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DESIGN

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### COMPLIANCE NOTES

MECHANICAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS AND SPECIFICATIONS

PROVIDE MECHANICAL EXHAUST IN EACH KITCHEN, BATHROOM, AND TWO PIECE WASHROOM

ALL SUPPLY, RETURN AND EXHAUSTED DUCTS EXPOSED TO AN UNHEATED SPACE SHALL BE INSULATED IN ACCORDANCE WITH O.B.C.

OUTDOOR AIR INTAKES SHALL BE LOCATED TO AVOID POSSIBLE SOURCES OF CONTAMINATION, ALLOW ACCESS FOR SERVICE AND BE EQUIPPED WITH A SCREEN EXHAUST OUTLETS SHALL BE LOCATED TO AVOID CONTAMINATION OF INTAKE AIR

REGISTER LOCATIONS ARE APPROXIMATE

ALL VENTILATION BRANCH SUPPLY DUCTS SHALL BE FITTED WITH DIFFUSERS WITH ADJUSTABLE BALANCE STOPS, OR ACCESSIBLE DAMPERS WHICH MAY BE ADJUSTED AND FIXED

ALL HRV START-UP PROCEDURES RECOMMENDED BY THE MANUFACTURER SHALL BE FOLLOWED

HRV AIR INTAKES SHALL BE CLEARLY MARKED AS SUCH FOR IDENTIFICATION FROM LOCATIONS OUTSIDE THE DWELLING

### DESIGNER NOTES

ALL DESIGNS AND CALCULATIONS REMAIN THE PROPERTY OF NIAGARA HVAC DESIGN UNTIL PAID IN FULL.

RESUSE OR REPRODUCTION IN WHOLE OR PART STRICTLY PROHIBITED WITHOUT EXPRESS WRITTEN CONSENT OF NHD.

ALL WORK PERFORMED AND MATERIAL SUPPLIED SHALL CONFORM TO THE MOST RECENT EDITION OF THE O.B.C.

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