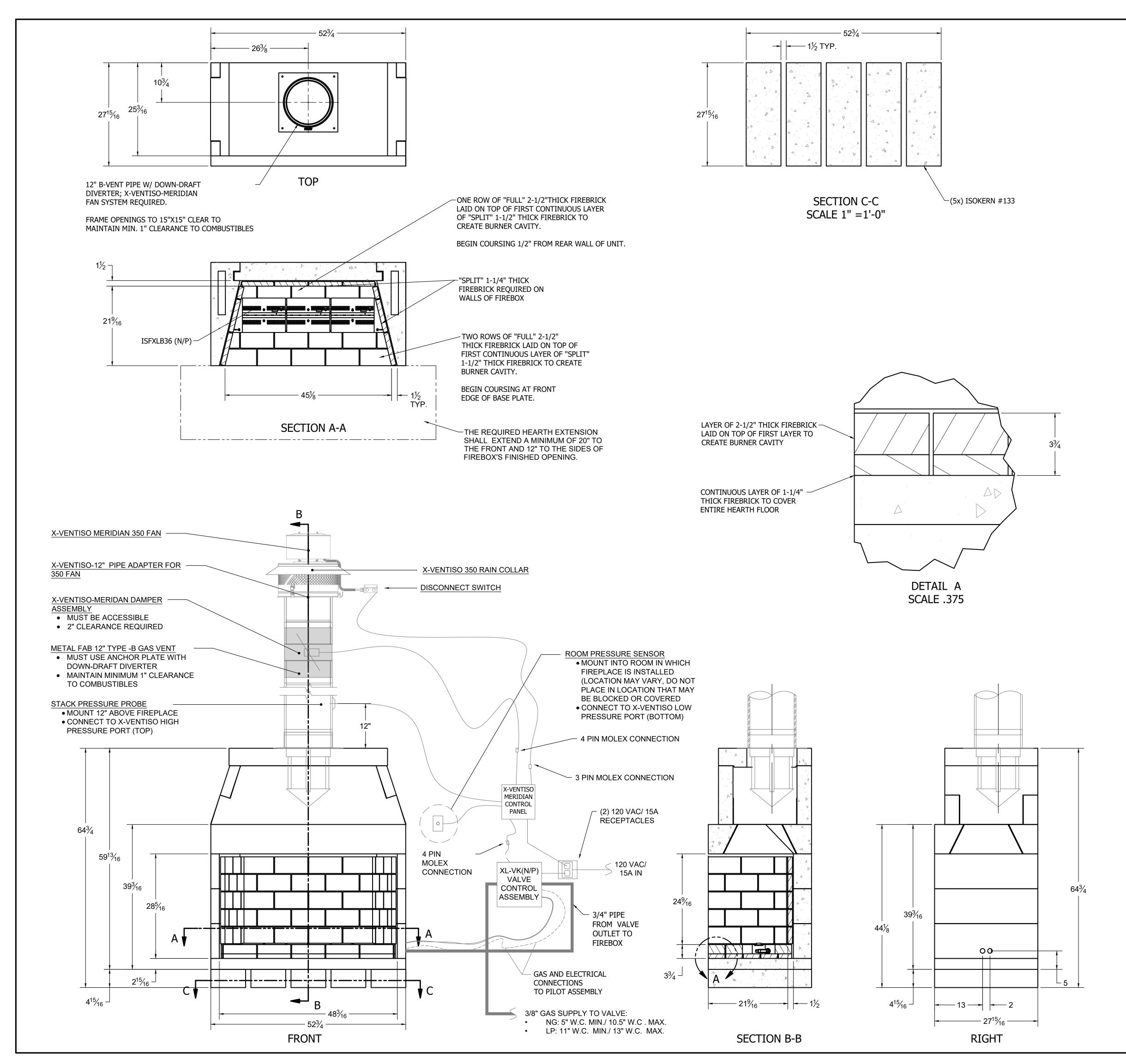
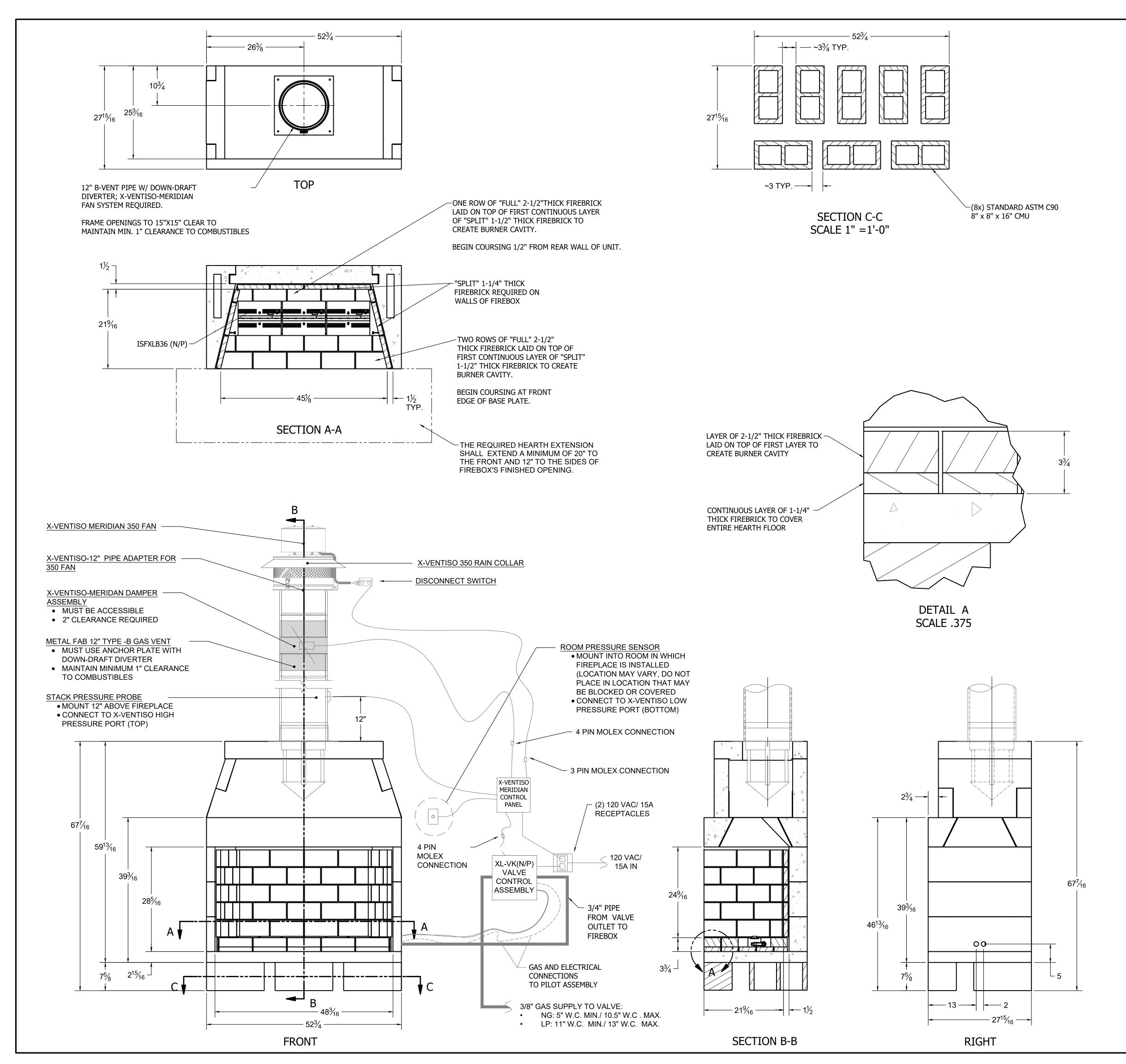


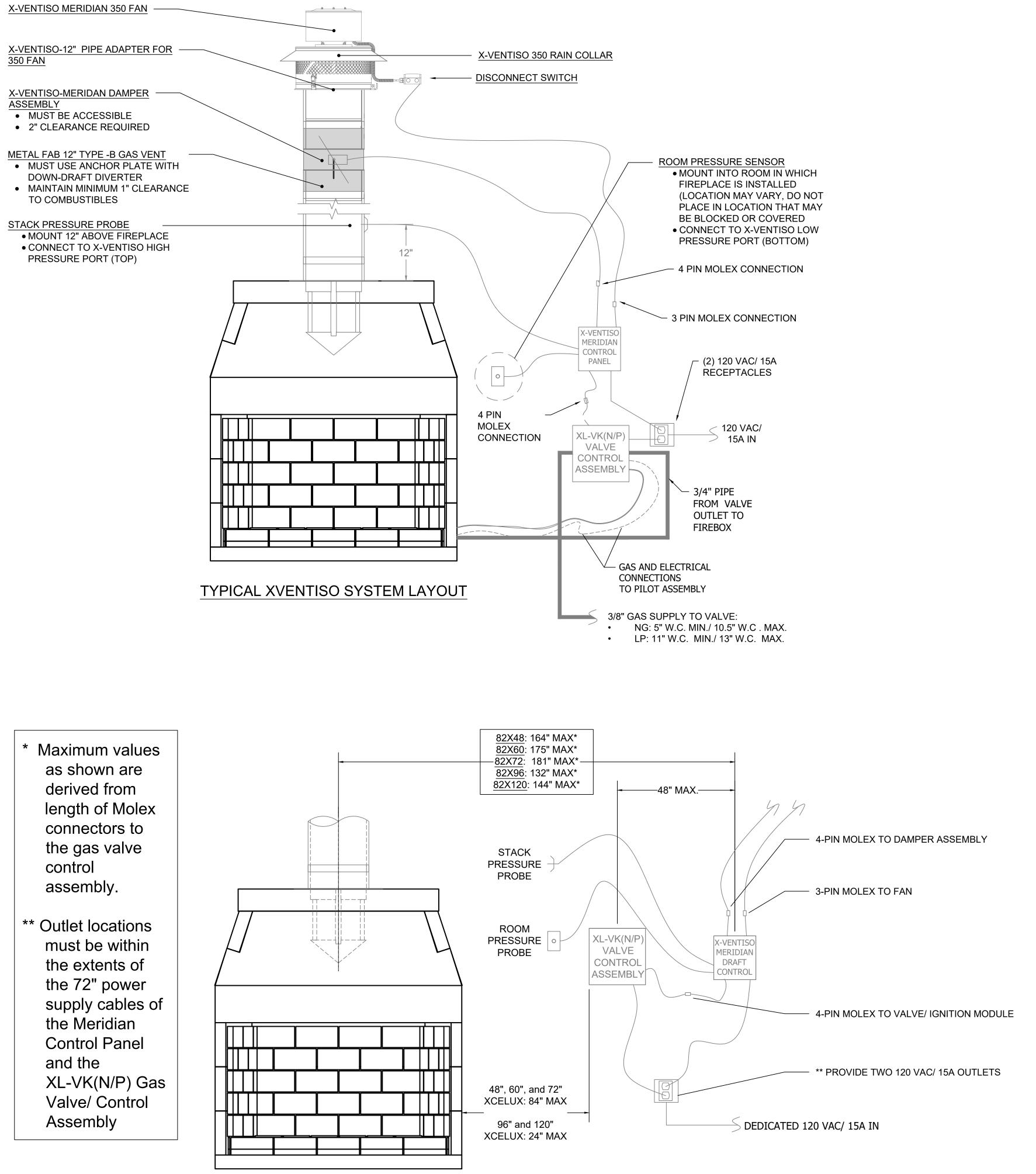
	-	ISOKE	RN		IPONE	NT AND	ACCESS	SOR	IES LIST	-
PART # 82X48	QTY.	48" XCEL	.UX F	IREPLAC) CE	DES	SCRIPTION			
12MDD-EC ISFXLB36(N/P)	1	12in ANCH	HOR F	PLATE W/	DRAFT DI	VERTER & ISO R (N: NATURAL		PANE)		
XL-VK(N/P)		-VENTIS	O-ME	ERIDIAN	FAN SYST	DX (N: NATUR EM (CONSIST	S OF THE FO			
	•	X-VENTI	SO-3	350 FAN	RAIN CAP	I (XV-MERD-3 (XV-350RC)		10)		
XV-MERDML	1	X-VENTI X-VENTI	SO-N SO-N		N DAMPER	ÈOR 350 FÁN ASSEMBLY (RESSURE PR	XV-MERD-DA OBE/ COVER	AMP) R PLA1	TE STACK PE	RESSURE PROBE,
	ΙΠ	UBING ()	XV-M	ERD-PRI	ESSKIT)	DL PANEL (XV				
					_	ERAL NC	_	,		
						,				VED FOR USE ONLY
BURNER IN	N THIS FI	REPLACE	IS PF	ROHIBITED	O AND WILL	ABSOLVE EAR	THCORE/ ISOK	KERN C	OR ÀNY DIVISIC	GE OF ANY OTHER
2. THIS FIRE	PLACE'S	BURNER	SYST	EM (ISFXL	.B36(N//)P) (ICE. (XL-VK(N/P))THAT
3. THIS APPL	IANCE IS	SONLY FO	RUS	E WITH TH			ED ON THE BUI	RNER	RATING PLATE	. VERIFY GAS SUPPLY
4. THE EXHA	UST FLU	E GASES	ARE ⁻		NTED THRC	UGH THE TOP				UL LISTED B-VENT SYSTEM IS NOT
SUPPLIED	BUT IS F	REQUIRED	FOR	PROPER	OPERATIO					
AS LISTED <u>•</u> UNIT FI	RONT: 0	"								
	JSTIBLE	SHEATHIN			NING TOP:	8"				
 MANTE 	L ABOVE	R TRIM TO	<u>G</u> : 12	11	<u>:S</u> : 8"					
•HEART	H EXTEN	IDEWALLS	OND	FRONT: 2	20" NISHED): 1/	0 "				
•COMBL	JSTIBLE	FLOOR: 5'	' (MU	ST USE CO	OMBUSTIBL	E FLOOR INST				ED IN XCELUX BURNER CAVITY, AND
ISOFLA	MES LIN	NEAR XL B	URNE	ER AND VA	ALVE)					,
APPLICATI	ON IS CI	REATED B	Y OM	ITTING OF	NE COURSE	OF BACK AND	SIDEWALLS F			DUCED HEIGHT COURSE TALL 82X48
7. THIS DESI	GN REQI	JIRES ME	CHAN	IICAL VEN	TILATION A		ING THE X-VEI			N SYSTEM FOR
	LY OR H	ORIZONTA	LLY.	REFER T		TION MANUAL		-		MINATE EITHER D ADDITIONAL
8. ENSURE T	WO 120\	/AC/ 15A C	UTLE	ETS ARE F		OR GAS VALVE				
	SSORIES									ANUFACTURER'S
10. INSTALL COMBUST					ALL MANUF	FACTURER SPE	CIFICATIONS.	ENSU	RE MIN.1" CLE	ARANCE TO
SHIELD IN	STALLED). IF HEAT	SHIE	LD IS NO	T INSTALLE	D, THIS CLEAR	ANCE INCREAS	SES TO	D 18".	IBLES WITH HEAT
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DAMAGES	OR EXP	ENSES AR	RISING	G OUT OF	THE USE O	F THE FIREPLA	CES OR CHIMI	NEY SY	YSTEMS.	L OR CONSEQUENTIAL
14. ALWATS					3 GOVERNI	NG FIREFLACE	S AND FIREFL		ISTALLATIONS	
					-					
-				ISC	OMET	RIC VIEW	/ (N.T.S.))		
12" B-VENT DIVERTER; >	-									
FAN SYSTEM										
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CONTINUOU THICK FIRE		•	4" —					\mathbf{I}		00
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ISFXLB36 (N	J/D)					_			N	
יט ענסשע וני (ו	ч/г) —-					-	SCALE: N. (K(N/P) VALVE AS	_	NOT SHOWN	
	1			SS OTHERWI	SE STATED, ALI	PROJECT:	48" XC	FI	UX SEF	RIES
Cart	hCC	<u>r</u> e®	UN	MENSIONS AF SPECIFIED LERANCES			JSTIBLE FLOO			
INDUSTR	NES, L	"L.C.	ANG.			E.C. PUMIC			SCALE:	DRAWING #: REV
			LIN.	.X ±	<u></u> ┤┼ᠿᆉᄃ╴┐	_ drawn: K.B.H	DATE: 10/1/2024	SIZE: 1		DRAWING #. REV

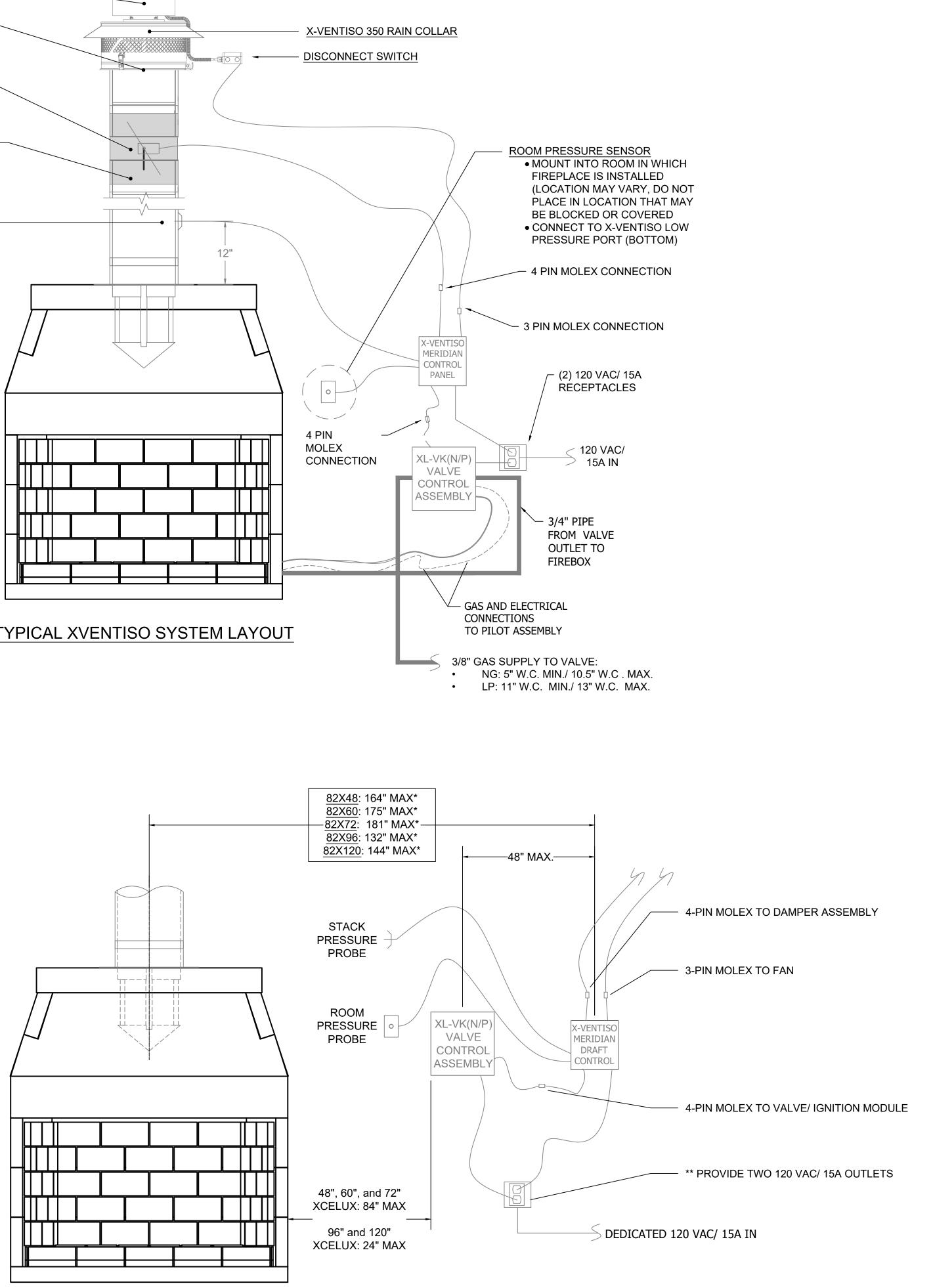


	ISOKE	ERN COM	IPONE	NT AND	ACCESS	SORIE	S LIST	• -	
PART # 82X48	QTY. 1 48" XCEL	UX FIREPLAC	E	DES	SCRIPTION				
12MDD-EC ISFXLB36(N/P)	1 12in ANC	HOR PLATE W/	DRAFT DIV			PANE)			
XL-VK(N/P)	X-VENTIS	GAS VALVE CO	FAN SYST	EM (CONSIS	TS OF THE FO		G:)		
	• X-VENT	ISO-MERIDIAI	N-350 FAN RAIN CAP	(XV-MERD-3 (XV-350RC)	50)				
XV-MERDML	1 • X-VENT	ISO-12" PIPE A ISO-MERIDIAN		FOR 350 FAN	(XV-350ADP (XV-MERD-DA	12) AMP)			
		ISO-MERIDIAN XV-MERD-PRE ISO-MERIDIAN	SSKII)				STACK PR	ESSURE PR	OBE,
		#133: REQUIR							
			GENE	ERAL NC	DTES				
WITH THE BURNER II INCIDENT/ 2. THIS FIRE INCLUDES 3. THIS APPL AND BURN 4. THE EXHA PIPING WI SUPPLIED 5. THE XCEL AS LISTED •UNIT F •SIDES •COMBU •HEART •MANTE •OPENII •HEART •COMBU INSTAI ISOFL/ •INSUL/ 6. THE "REDI APPLICAT FIREPLAC 7. THIS DESI GAS-ONLY VERTICAL INFORMAT 8. ENSURE T ACCORDA 9. ALL ACCE SPECIFIC/ 10. INSTALL COMBUST 11. IMPORT SHIELD IN 12. DRAWIN REPRODU 13. EARTHO	RONT: 0" AND REAR: 1.5" JSTIBLE SHEATHIN HING OR TRIM TO ABOVE OPENING NG TO SIDEWALLS H EXTENSION BEY JSTIBLE FLOOR: 5 LATION MANUAL, AMES LINEAR XL B ATION FROM FIRE JCED HEIGHT APP ION IS CREATED B E (MAX REDUCTIO GN REQUIRES MEY OPERATION. VE LY OR HORIZONTA TON REGARDING F WO 120VAC/ 15A C NCE WITH INSTAL SSORIES/ EQUIPM	AR XL BURNER IS PROHIBITED NTIAL DAMAGES SYSTEM (ISFXL RAFT AND SAFI DR USE WITH TH F SAME TYPE P ARE TO BE VEN DIVERTER. THIS D FOR PROPER ACES SHALL BI ACES SHALL BI ACES SHALL BI ACES SHALL BI COND FRONT: 2 COND FRONT: 2 CONTINUOUS 1 URNER AND VA BOX (UNSHIELD D CONTINUOUS 1 CONTINUOUS 1 URNER AND VA BOX (UNSHIELD D CONTINUOUS 1 CONTINUOUS 1 CO	SYSTEM AS AND WILL S OR EXPEN B36(N//)P) C ETY SYSTEN IE TYPE OF RIOR TO IN ITED THROUS S TWELVE I OPERATION E INSTALLE MING TOP: S 7 ED: 3" 20" <u>NISHED</u> : 12 OMBUSTIBLE -1/4" THICK LVE) ED: 3" HE 82X48 F IE COURSE OWED; 3 FU FILATION AS LIMITED TO D INSTALLA ROVIDED F L. CONTRO D INSTALLA ROVIDED F L. CONTRO D INSTALLA ROVIDED F L. CONTRO D INSTALLA CONLY AND S STRICTLY THEREOF S THE USE OF	SHOWN IN TH ABSOLVE EAR NSES ARISING COMES WITH A M. GAS INDICATH STALLATION. UGH THE TOP NCH (12") DIAN I. D WITH THE M 8" SEFLOOR INST. FIREBRICK FL GF BACK AND JLL COURSES SISTANCE US OF BACK AND JLL COURSES SISTANCE US OF BACK AND JLL COURSES SISTANCE US OF BACK AND JLL COURSES SISTANCE US OF AAXIMUM O TION MANUAL OR GAS VALVE SISTANCE US OF AAXIMUM O TION MANUAL OR GAS VALVE SISTANCE US OF ACTURER SPE SEMBLY REQU D, THIS CLEAR ARE THE SOL PROHIBITED. SHALL NOT BE THE FIREPLA	ALLATION APP OF THE UNIT V METER, DOUBLI INIMUM CLEAR ALLATION APP OOR WITH 2-1/ SHOWN IN THIS SIDEWALLS FI REQUIRED OF TWO 90° ELE FOR MAXIMUM E AND X-VENTIS OF TWO 90° ELE FOR MAXIMUM E AND X-VENTIS OF TWO 90° ELE FOR MAXIMUM E AND X-VENTIS CON THE X-VENTIS SIDEWALLS FI REQUIRED OF TWO 90° ELE FOR MAXIMUM E AND X-VENTIS CON THE X-VENTIS SIDEWALLS FI REQUIRED SIDEWALLS FI SIDEWALLS FI SIDEWAL	ISFXLB36(N CERN OR AI JSE OF THIS ISE OF THIS ISE OF THIS IVALVE AS RNER RATI VITH 12" ME E WALL B-N RANCES TO RANCES TO RANCES TO S DRAWING ROM THE S NTISO-MERIDI CESSIBLE D ACCORD I VENT LEN SO-MERIDI CESSIBLE D ACCORD ENSURE N RANCE TO 0 SES TO 18" OF EARTHO FOR ANY IN	N/P)). USAG NY DIVISIO S FIREPLAG SSEMBLY (ING PLATE. ETAL-FAB UVENTING S D COMBUST O COMBUST O COMBUST FIREBRICK STOCK 4- C RIDIAN FAN MAY TERM NGTHS AND IAN CONTR E LOCATION DING TO MAY MIN.1" CLEA COMBUSTI CORE INDU NCIDENTAL EMS.	GE OF ANY OT N THEREOF F CE. XL-VK(N/P))TH VERIFY GAS JL LISTED B-V YSTEM IS NOT TIBLES ED IN XCELUX BURNER CAVI DUCED HEIGH OURSE TALL DUCED HEIGH OURSE TALL OURSE	HER OR ANY IAT SUPPLY ENT Γ ITY, AND IT 82X48 R R R R R EAT
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MAINTAIN M	11n. 1" Clearance	E TO COMBUST	BLES						
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	< FIREBRICK REQU ID SIDEWALLS						71		}
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2-1/2" THIC	K LAYER OF FIREB	RICK	_						
LAID ON TO	P OF CONTINUOUS	S 1-1/4" THICK				\Box			
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FIREBRICK	•]
									-
ISFXLB36 (N	/P)		/		ISOMETR	IC VIEV	N		
				*REOUIRF) XL-VK(N/P) VALV	VE ASSEMBLY	Y NOT SHOW	N	
#133 SPACEL) PER INSTALLATI(. , ,				
		UNLESS OTHERWIS	E IN INCHES	PROJECT:	48" XC	ELU	X SEF	RIES	
		UNSPECIFIED TOLERANCES ANG. A ±	THIRD ANGLE PROJECTION	MATERIAL:	BLE FLOOR IN	STALLATI	<u>ON W/ #13</u>	3	
I UNIDUS IF	RIES, L.L.C.	LIN. X ±		E.C. PUMIC DRAWN: K.B.H	E MIXTURE DATE: 10/1/2024	SIZE: SCALE	E: =1'-0"	DRAWING #: 82X48	REV:
		.XX ± .XXX ±		APPROVED:	DATE:		- I -U		DF 5

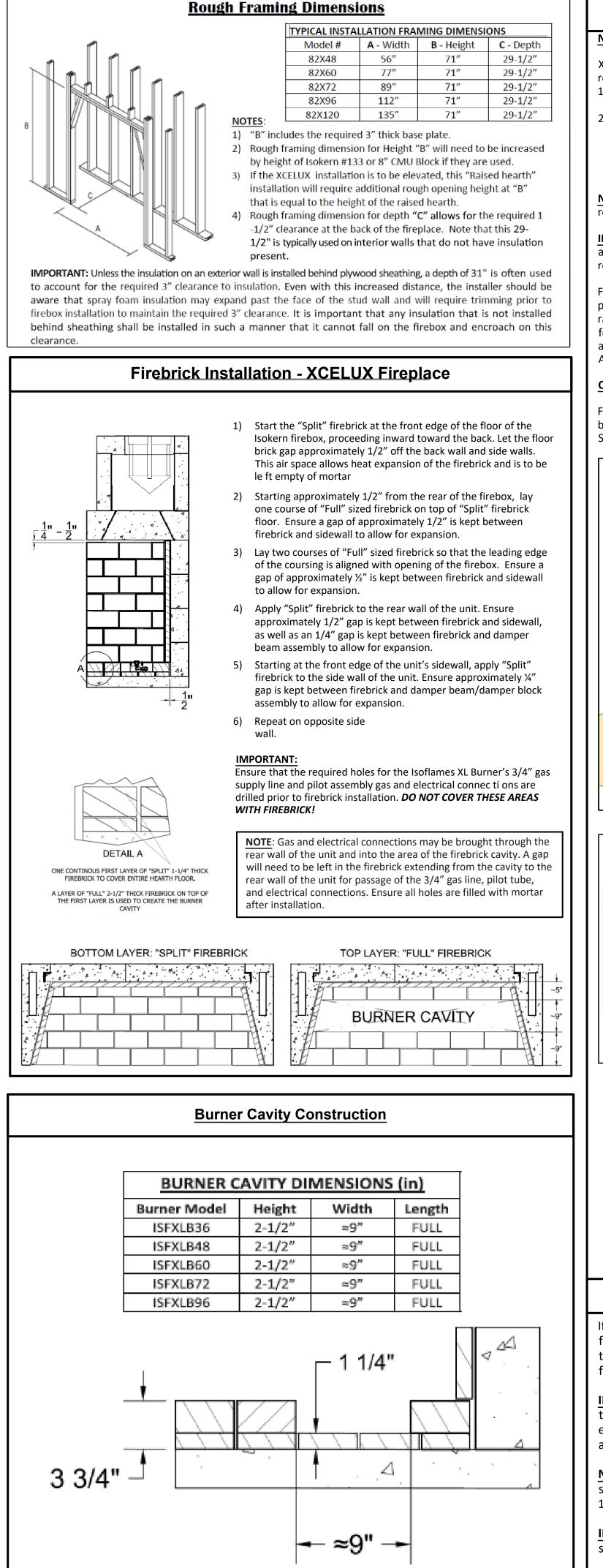


	ISOK		IPONE	NT AND	ACCESS	SORIES	LIST
PART # 82X48	QTY. 1 48" XCE	LUX FIREPLA	CE	DE	SCRIPTION		
12MDD-EC ISFXLB36(N/P)	1 36" ISOF		XL BURNER	(N: NATURA	L GAS/ P: PRO		
XL-VK(N/P)	X-VENTIS	SO-MERIDIAN	FAN SYSTE	EM (CONSIS	RAL GAS/ P: PRO		
	• X-VENT	TISO-MERIDIA ISO-350 FAN	RAIN CAP ((XV-350RC)	350) N (XV-350ADP [,]	10)	
XV-MERDML	VENT	ISO-MERIDIAI	N DAMPER	ASSEMBLY	(XV-MERD-DA	AMP)	ACK PRESSURE PROBE,
	TUBING (XV-MERD-PR	ESSKIT)		/-MERD-CTLR		
			REQUIRED	D FOR ALTER	NATE COMBUS		INSTALLATION
			GENE	ERAL NO	JIES		
BURNER II INCIDENTA 2. THIS FIRE INCLUDES 3. THIS APPL AND BURN 4. THE EXHA PIPING WI SUPPLIED 5. THE XCEL AS LISTED <u>•UNIT F</u> <u>•SIDES</u>	N THIS FIREPLACE AL OR CONSEQUE PLACE'S BURNER AN AUTOMATIC I IANCE IS ONLY FO IER/ VALVE ARE C UST FLUE GASES TH DOWN-DRAFT BUT IS REQUIREI UX SERIES FIREP	E IS PROHIBITEI ENTIAL DAMAGE SYSTEM (ISFXI DRAFT AND SAF OR USE WITH T DF SAME TYPE I ARE TO BE VEI DIVERTER. THI D FOR PROPER LACES SHALL E	D AND WILL A S OR EXPEN B36(N//)P) C ETY SYSTEN HE TYPE OF PRIOR TO INS NTED THROU S TWELVE IN OPERATION E INSTALLEI	ABSOLVE EAF NSES ARISING OMES WITH A GAS INDICAT STALLATION. JGH THE TOP NCH (12") DIA I. D WITH THE N	RTHCORE/ ISOK GOUT OF THE U GAS CONTROI ED ON THE BUF OF THE UNIT W METER, DOUBLI	ERN OR ANY ISE OF THIS F L VALVE ASSE RNER RATING VITH 12" META E WALL B-VEN	EMBLY (XL-VK(N/P))THAT PLATE. VERIFY GAS SUPPI AL-FAB UL LISTED B-VENT ITING SYSTEM IS NOT
•SHEAT	HING OR TRIM TO	OPENING SIDE		0			
 OPENII 	NG TO SIDEWALL	<u>S:</u> 24"	20"				
•HEART •COMBU INSTAL ISOFLA	H EXTENSION BE	YOND SIDES (F 5" (MUST USE C , CONTINUOUS BURNER AND V/	I <u>NISHED)</u> : 12 OMBUSTIBLE 1-1/4" THICK ALVE)	E FLOOR INST			DETAILED IN XCELUX EBRICK BURNER CAVITY, AN
APPLICAT	ION IS CREATED E	BY OMITTING OI	NE COURSE	OF BACK AND	D SIDEWALLS F		HIS REDUCED HEIGHT OCK 4- COURSE TALL 82X48
7. THIS DESI		ECHANICAL VEN	TILATION AS	SSISTANCE U	SING THE X-VEN		AN FAN SYSTEM FOR
VERTICAL		ALLY. REFER T	-	-		-	THE AND ADDITIONAL
8. ENSURE T ACCORDA	WO 120VAC/ 15A NCE WITH INSTAI SSORIES/ EQUIPI	OUTLETS ARE F _LATION MANUA	L. CONTRO	LS SHALL BE	LOCATED IN AC	CCESSIBLE LC	CONTROL PANEL IN OCATION. G TO MANUFACTURER'S
COMBUST	IBLES IS KEPT AT	ALL TIMES.					.1" CLEARANCE TO
SHIELD IN	STALLED. IF HEA	T SHIELD IS NO	T INSTALLED	D, THIS CLEAF	RANCE INCREAS	SES TO 18".	
REPRODU	CTION OR UNAUT	HORIZED USE I	S STRICTLY	PROHIBITED.			RE INDUSTRIES. ANY DENTAL OR CONSEQUENTI
DAMAGES	OR EXPENSES A	RISING OUT OF	THE USE OF	THE FIREPL	ACES OR CHIMN	NEY SYSTEMS	S.
			0 00 VEI (IN				
		IS	OMETR		V (N.T.S.)		
		<u></u>				-	
	IPE W/ DOWN-DR VENTISO-MERIDI REQUIRED.						
	INGS TO 15"X15" N. 1" CLEARANCE		BLES	\leq			
1-1/4" THICK ON REAR AND	FIREBRICK REQU	IRED -					Π
2_1/ን" ד⊔ז⊂ע	LAYER OF FIREB	RICK	_				
LAID ON TOP	OF CONTINUOUS	5 1-1/4" THICK					
LATER TO CR	LATE DURNER CA	VIII.					
CONTINUES							00
CONTINUOUS FIREBRICK O	s layer of 1-1/4' N floor						
					+		
ISFXLB36 (N/F	21						
1)_			-	ISOMETRIC	UVIEW	
	·)-			-		-	
CMU SPACED	PER INSTALLATIC	on Manual			SCALE: N XL-VK(N/P) VALVE	I.T.S.	SHOWN
	PER INSTALLATIC	UNLESS OTHERW	SE STATED, ALL		SCALE: N XL-VK(N/P) VALVE	I.T.S. ASSEMBLY NOT	
		UNLESS OTHERW	SE STATED, ALL RE IN INCHES THIRD ANGLE PROJECTION	*REQUIRED PROJECT: DESCRIPTION: COMBUSTI	SCALE: N XL-VK(N/P) VALVE	I.T.S. ASSEMBLY NOT	SERIES
Cart	PER INSTALLATIC	UNLESS OTHERW DIMENSIONS A UNSPECIFIED	SE STATED, ALL RE IN INCHES THIRD ANGLE PROJECTION	*REQUIRED PROJECT: DESCRIPTION: COMBUSTI MATERIAL:	SCALE: N XL-VK(N/P) VALVE	I.T.S. ASSEMBLY NOT	SERIES





		ISOKE	RN (CON	IPONE			SOF	RIES LIST	
PART # 82X48	QTY. 1	48" XCEL								
12MDD-EC ISFXLB36(N/P) XL-VK(N/P)	1	36" ISOFL	ames li	INEAR	XL BURNE	/ERTER & ISO R (N: NATURAL DX (N: NATURA	. Gas/ P: Prof			
		X-VENTIS	D-MERI	DIAN	FAN SYST	EM (CONSIST (XV-MERD-3	S OF THE FC		,	
		X-VENTI X-VENTI	SO-35C SO-12"	FAN PIPE /	RAIN CAP	(XV-350RC) FOR 350 FAN	(XV-350ADP	12)		
XV-MERDML	1	• X-VENTI	SO-MEI SO-MEI	ridian Ridian	N DAMPER N ROOM P	RASSEMBLY (RESSURE PR	Х̀V-MERD-DA OBE/ COVER	AMP) R PLA	TE, STACK PR	ESSURE PROBE,
			SO-MEI	RIDIAN	I CONTRO	L PANEL (XV				
	5 9	ASTM C90	#133: R 16X8X8	EQUIR 3 CMU:	REQUIRE	DMBUSTIBLE F	LOOR INSTALL IATE COMBUS	TIBLE	n E FLOOR INSTA	LATION
					GEN	ERAL NC	TES			
										REPLACE THAT IS
									NER SYSTEN N THIS FIREF	/I AS SHOWN IN PLACE IS
PROHIE	BITED	AND WIL	L ABS	OLVE	EARTH	CORE/ ISOK	ERN OR AN	IY D	IVISION THE	REOF FOR ANY
FIREPL		UR CON	SEQUE		L DAMA	JES OR EXI	PENSES AR	(1511N	GOUTOFT	HE USE OF THIS
									A GAS CON D SAFETY S	TROL VALVE YSTEM
3. THIS AF	PPLIA	NCE IS O	NLY F	OR U	SE WITH	THE TYPE	of gas ine	DICA	TED ON THE	EBURNER
RATING INSTAL			FY GA	S SU	PPLY AN	D BURNER/	VALVE ARE	E OF	SAME TYPE	E PRIOR TO
										NIT WITH 12"
									UT IS REQU	ELVE INCH (12") RED FOR
		ERATION	-	LACE	ES SHALL	BE INSTAL	LED WITH ⁻	THE	MINIMUM CI	_EARANCES TO
COMBL	ISTIB	LES		_/						
AS LIST •UNI		<u>SELOW:</u> <u>ONT</u> : 0"								
		ND REAR:				PENING TO	⊃. 8"			
•SHE	ATH	NG OR TI	RIM TO) OPE	ENING SI		0			
		ABOVE O G TO SIDE								
		EXTENSI				<u>:</u> 20" (FINISHED)	12"			
•CO	/ BUS	TIBLE FL	OOR:	5" (Ml	JST USE	COMBUSTI	BLE FLOOR			APPLICATION AS
						•				REBRICK FLOOR . BURNER AND
	.VE) Π ΔΤ			BOX	(IINSHIE	LDED): 3"				
6. THE "R	EDUC	ED HEIG	HT AP	PLICA	ATION" O	F THE 82X4				THIS DRAWING.
										OF BACK AND CTION OF 9-1/2"
ALLOW	ED; 3	FULL CO	URSE	S RE	QUIRED)				v	
X-VENT	ISO-I	MERIDIAN	I FAN	SYST	TEM FOR	GAS-ONLY	OPERATIO	N. `	VENT PATHS	S ARE LIMITED
									VERTICALL	
ADDITI	ONAL	INFORM	ATION	REG	ARDING	FLUE RUNS	.			
						-			TALLATION	MANUAL.
						SSIBLE LOO		ACE	TO BE INST	ALLED
ACCOR	DING	TO MAN	UFAC	FURE	R'S SPEC	CIFICATION	S.			
						S KEPT AT A		R 21	PECIFICATIC	ONS. ENSURE
-				-					QUIRES 2" CI S NOT INSTA	LEARANCE TO
CLEAR	ANCE	INCREAS	SES TO	D 18".						
	-	-		-		-		-	DLE PROPEF ED USE IS S ⁻	-
PROHIE		-	FRN ()E SHALL N			BLE FOR ANY
INCIDE	NTAL	OR CONS	SEQUE	ΕΝΤΙΑ		-		-		HE USE OF THE
	-	S OR CHIN CHECK LO				DES GOVER	NING FIRE	PLAC	CES AND FIF	REPLACE
INSTAL	LATIC	ONS.								
]				PROJECT:	<u>48" XC</u>		UX SEF	RIES
Cart	hC	<mark>0</mark> 7@®	DIMEN UNSPE TOLER/	CIFIED	RE IN INCHES THIRD ANGLE PROJECTION	DESCRIPTION: XVENTISO				
INDUSTF			ANG. A	± ±		MATERIAL: E.C. PUMIC		SIZE:		DRAWING #: REV:
			.xx .xx	± < ±		K.B.H APPROVED:	10/1/2024 DATE:	D	N.T.S.	82X48 SHEET # 4 OF 5



NONCOMBUSTIBLE FLOORS

XCELUX Fireplaces must be built upon a concrete support slab with no wood underpinnings. Proper reinforced concrete support slab for fireplace installations may include the following types: Slab on grade: standard residential, minimum four inch (4") thick, 2500 psi concrete foundation on

- properly compacted fill.
- Isokern unit. and the chimney.

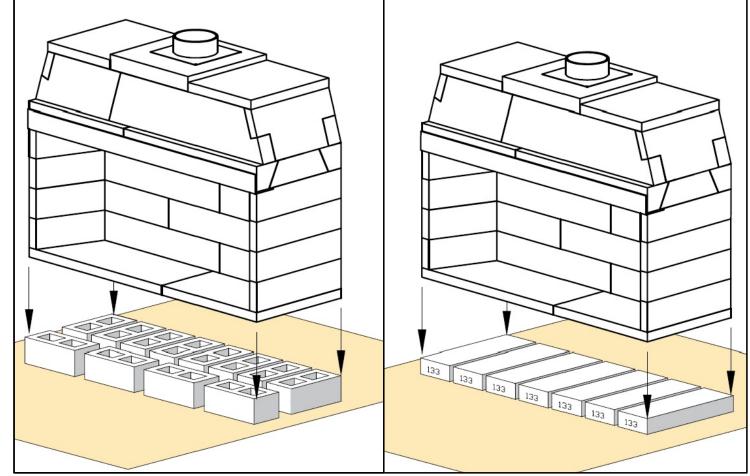
NOTE: For multi-floor and back-to-back installations proper weight computation on an individual basis is required. Consult a local structural engineer for load bearing requirements.

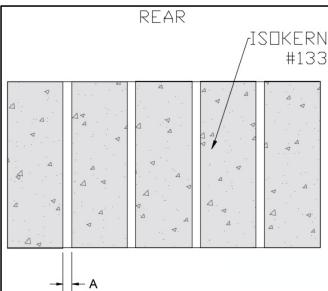
IMPORTANT: Foundations and footings must meet local code and be approved by the local building authority. For any foundation design and load requirements check with a local structural engineer. It is the responsibility of the General Contractor to ensure adequate foundations.

For a raised hearth (floor of the firebox elevated above the room's noncombustible floor), the XCELUX base plate can be set on a Isokern #133, CMU Block, or poured concrete platform that is built up to the desired raised hearth height on the concrete support slab. When calculating raised hearth height, be sure to allow for the three inch (3'') thick base plate plus the one and one- half inch (1-1/2'') thick fire brick floor in addition to the height of the concrete block platform. CMU used for base plate support should be rated ASTM 90.

COMBUSTIBLE FLOORS

For installation on combustible floor, 5" thick Isokern material (Part #133) or alternatively 8" CMU block may be used to create the required clearance to combustible between the firebox and combustible floor system. See Table 1 and 2 for block layout pattern and spacing.





FRIINT

TABLE 1										
ISOKERN										
MODEL	ISOKERN #133 QUANTITY	SPACING (A)								
82X48	5	1-1/2"								
82X60	6	3-3/8"								
82X72	7	3-3/8"								
82X96	9	3″								
82X120	11	2-3/4"								

Recessed Application on Combustible Floor System

If the design preference is for a flush hearth installation of the XCELUX Fireplace (floor of the fireplace at the same level the room's floor), the Isokern #133 or 8" CMU block can be lowered to the recessed floor system with advanced planning. When calculating depth of recess required for a flush hearth, be sure to account for the assembled thickness of the Isokern 133 or 8" CMU block.

IMPORTANT: Whether a flush hearth is preferred or a raised hearth, the XCELUX Fireplace requires that the combustible floor in front of the fireplace must be covered with a noncombustible hearth extension set tight against the fireplace front and extend at least 20" out from the finished fireplace and at least 12" beyond the finished sides of the fireplace opening.

NOTE: Field verified dimensions should make allowance for hearth extensions in front (20") and sides (12" ea.) from the fireplace opening. Also, make sure fireplace sides and rear have minimum 1-1/2" clearance to combustibles.

IMPORTANT: The level of the finished firebrick hearth floor and noncombustible hearth extension shall not be recessed below the level of the finished floor.

Flooring System

Off-grade slab on foundation walls and footings: Projects with off-grade floor systems as well as upper-story installations require this type of support. When building off-grade support slabs the code required hearth extension substrate should be built as a continuation of the support slab for the fireplace unit. Supports for off-grade slabs must be concrete or steel and capable of supporting the slab,

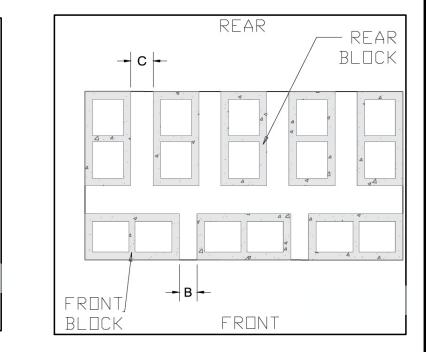
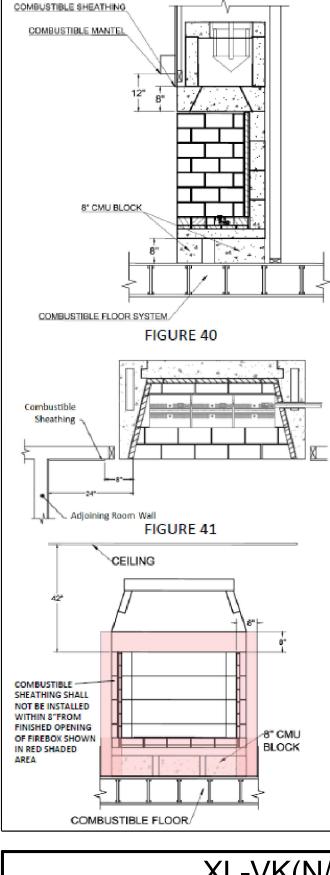


TABLE 2 CMU BLOCK CMU BLOCK FRONT REAR MODE QUANTITY SPACING (B) SPACING (C 82X48 3-3/4" 3″ 8 82X60 3-5/8" 1-3/4" 12 82X72 2-1/8" 14 82X96 2-1/2" 17 82X120 2″

4″

21



Clearance to Combustible Trim

NOTE: "Clearance to Combustible Trim" are those distances required to ensure that a fireplace mantel or facing will not catch fire. In most cases the distances should also be adequate to prevent any discoloration or warping due to heat. However, each installation presents a unique and completely different set of circumstances involving many variables.

These variables include paint or finish composition, previous exposure to heat, methods and guality of construction, air flow patterns, etc. Because of these variables, the manufacturer does not guarantee that heat warping, or discoloration will never occur.

MANTEL AND MANTEL SHELF CLEARANCES:

XCELUX units are designed to be installed so that the rough front face(s) of the Isokern firebox and smoke dome sit flush with the face of the rough framing members that create the room wall finish.

All combustible trim projecting less than one-and one-half inch (1-1/2") from this plane must be kept a minimum of eight inches (8") from the sides/top of the firebox openings.

All combustible trim projecting more than one and one-half inch (1-1/2") must be kept a minimum of twelve inches (12")from the fireplace opening.

Parts of the combustible mantel assembly located along the sides of the fireplace opening, which project more than oneand one-half inches (1-1/2'') from the face of the fireplace, shall have additional clearance equal to that of the projection.

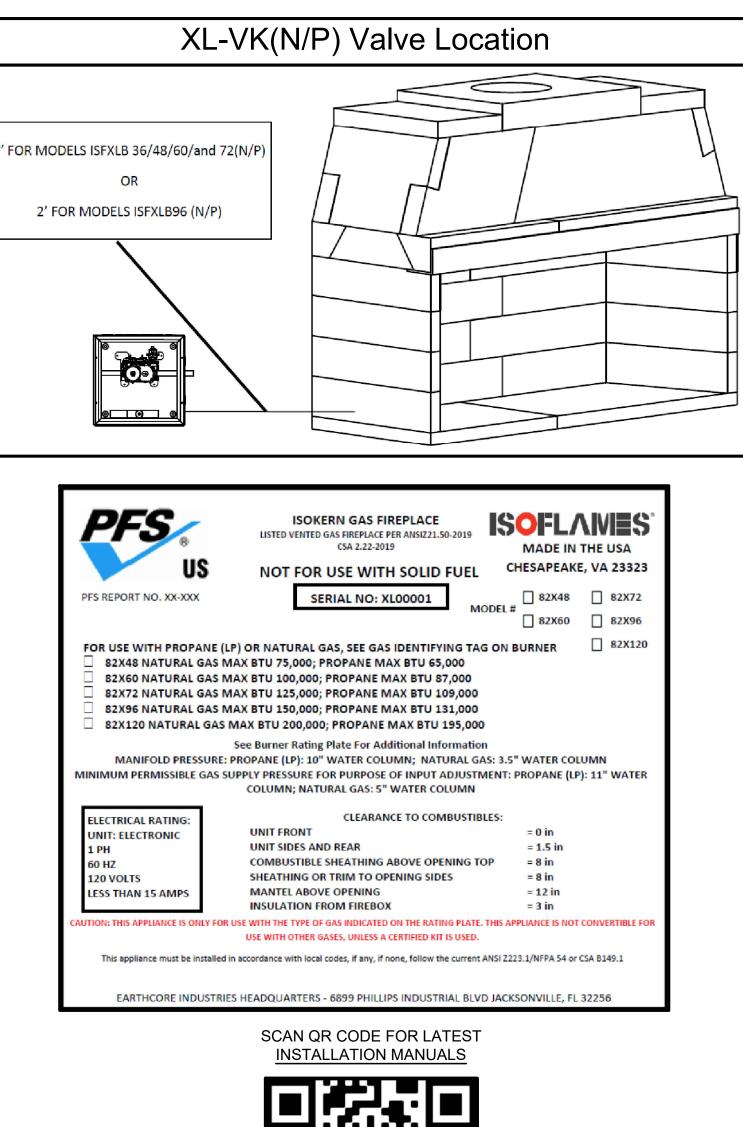
Parts of the combustible mantel assembly located above and projecting more than one- and one-half inches (1 - 1/2'') from the fireplace opening shall not be placed less than twelve inches (12") from the top of the fireplace opening

ADJOINING WALLS:

Side walls and walls to rooms adjoining the Isokern fireplace installation cannot be closer than twenty-four inches (24") to the finished fireplace opening.

CEILINGS:

The minimum clearance from the top of the fireplace opening to a ceiling is forty-two inches (42").



XCELUX Series (Gas Only) Specifications

MANUFACTURER:

ISOKERN Fireplace and Chimney Systems, North America distribution by Earthcore Industries, LLC, Jacksonville, Florida (Telephone 800-642-2920)

PRODUCT DESCRIPTION:

- Modular refractory masonry precast fireplace and chimney system
 - 1. Designed for field assembly as a fireplace and B-vent chimney system.
 - 2. All interlocking parts necessary for assembly of a complete firebox and smoke dome.
 - 3. Isoflames XL Linear Burner and XL Valve system (per installation manual)
 - 4. 12" B-vent chimney flue (per installation manual)
 - 5. Mechanical draft system (per installation manual)
 - 6. Combustible floor installation requires model specific combustible floor installation application as detailed in XCELUX instruction manual

MATERIALS:

- A. Light weight concrete of a proprietary mixture of Icelandic volcanic aggregate and aluminum cement for precast firebox, chimney block and flue liner components.
- 1. Compressive Strength: Firebox Block: 972 psi. B. Premixed (dry) EARTHCORE ADHESIVE.
 - 1. Tensile strength: 807 psi; Compressive strength: 2460 psi.
 - 2. Tested per ASTM C109. ASTM C307. and ANSI 118.4.
- C. Standard 1-1/8" high temperature refractory brick to line firebox interior walls
- D. Standard 1-1/8" high temperature refractory brick to line firebox floor.
- E. Standard 2-1/2" high temperature refractory brick to create burner cavity on top of 1-1/8" thick firebrick floor.

INSTALLATION:

- A. Reference manufacturer's installation instructions for standard configurations, weights, sizes and installation details
- B. Suitable masonry foundation or structural wood floor system must be provided. Combustible floor installation requires combustible floor installation application as detailed in XCELUX instruction manual
- C. Non combustible hearth extensions must be provided.
- D. Unit to be assembled on site per manufacturer's illustrated instructions.
 - 1. Premixed EARTHCORE ADHESIVE is used at all joints between components.
 - 2. Firebox to be lined with a minimum 1-1/8" rated firebrick on the walls and floor. An additional 2-1/2"
 - rated firebrick trough is created on top of firebrick floor for Isoflames XL Linear Burner installation. 3. A 1-1/2" minimum clearance to combustible materials is required for firebox side and back-walls.
 - 4. A 3" minimum clearance to insulation required.
- E. Shall be installed only with the approved Isoflames XL Linear Burner and XL Valve System as detailed in the instruction manual.
- F. Installation must use 12" B-vent pipe as detailed in the instruction manual (Anchor Plate with Down-Draft Diverter required).
- G. Only approved mechanical draft systems shall be utilized, as detailed in the instruction manual.

CERTIFICATION:

- A. PFS Corporation, PFS Report No. F24-349
- B. Meets or exceeds ANSI Z 21.50-2019, CSA 2.22-2014

NOTE: Isokern components are a natural material and slight variations in dimensions may occur. These should be no more than 1/8"

Weights and Load Calculations

Floor framing for XCELUX installation will need to be designed and built to accept substantial dead loads spread over a relatively small floor area. The following weights and sizes can be used to calculate loading. It is the contractor's responsibility to provide adequate floor system load capacity.

WEIGHTS AND LOAD CALCULATIONS Total dead load amounts include (but are not necessarily limited to) the following items and their corresponding weight estimates as listed below:

- 1. Isokern unit weights:
- a) XCELUX— 48: 1,645 lbs. (no burner, flue, or accessories)
- b) XCELUX— 60: 2,115 lbs. (includes steel angle, but no burner, flue, or accessories)
- c) XCELUX—72: 2,420 lbs. (includes steel angle; but no burner, flue, or accessories)
- d) XCELUX— 96: 3,000 lbs. (includes steel angle; but no burner, flue, or accessories)
- e) XCELUX— 120: 3,550 lbs. (includes steel angle; but no burner, flue, or accessories)
- 2. Approximate weight of glass media: 100 lbs.
- 3. Fire brick and Adhesive: 350 lbs.- 2000 lbs. depending on brick size and pattern 4. Facing material: per general contractor
- 5. B-Vent metal flue: per manufacturer and installation requirements

NOTE: Raised hearth applications with Isokern Support Blocks or CMU Blocks increases dead load weight

The floor area for each model is as follows:

- a. XCELUX 48: @ 53" x 28" = 10.3 sq. ft.
- b. XCELUX 60: @ 73 x 1/2" x 28" = 14.3 sq. ft.
- c. XCELUX 72: @ 85 x 3/4" x 28" = 16.67 sq. ft. d. XCELUX – 96: @ 108 x 1/4" x 28" = 21.04 sq. ft.
- e. XCELUX 120: @ 131 x 3/4" x 28" = 25.62 sq. ft.

Earthcore is not responsible for structural floor support details for this fireplace system. Unless otherwise noted all floor framing drawings in this manual are merely illustrations to indicate the presence of an underlying floor system. Consult your local structural engineer for proper floor system design, sizing, and specifications.

	UNLESS OTHERW DIMENSIONS A	RIES						
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