1981
2021

°STELPRO

HVAC product catalogue

1981
2021

A WORD FROM THE PRESIDENT

Since 1981, Stelpro has offered its customers unmatched service by visiting them on construction sites, offering them personalized technical support and occasionally repairing their products free of charge. By taking a human approach, we have forged close ties with our partners and become North America's top manufacturer of electric heaters. Not only are we extremely proud to have achieved this status, we are thankful to have earned it by designing, developing and manufacturing our high-quality products right here in Quebec. Our key focus is to guarantee comfort for users in their daily life. We leverage high performance, safety, innovation and unique design to deliver a wide range of comfort solutions... 360° comfort! Finally, we believe that to adapt successful in times of crisis such as the current pandemic, it is essential to show solidarity and actively support our local economy.

YVES CHABOT
PRESIDENT

WE ARE COMMITTED.

We are committed to reinventing the electric heating industry so that choosing a system is no longer an obligation, but a conscientious choice.

WE ARE PROUD.

We are proud to be the North American leader in comfort solutions that bring together design, performance and innovation to turn your spaces into unique environments.

WE ARE DETERMINED.

We are determined to exceed the expectations of our customers and partners to create a world where responsible energy use is everyone's benchmark.

WE ARE STELPRO.

We develop remarkable and innovative comfort solutions.

WELCOME TO OUR HOME.

°STELPRO

HVAC SOLUTIONS
FOR NORTH AMERICANS
BY NORTH AMERICANS

Stelpro offers a unique portfolio of innovative HVAC products, designed and manufactured in Canada to meet the highest of standards. Stelpro's line of HVAC products was put in place to meet all the requirements of the North American HVAC industry.

Whether you need a commercial, residential or central heating system, you'll find what you are looking for. The Stelpro HVAC product line will astound and amaze you with ease of use, installation and care, custom options, versatility and innovative characteristics. Stelpro is your global comfort solution.

TABLE OF CONTENTS

HVAC

THERMOSTATS

HISTORY

The history of Stelpro since its foundation is first and foremost that of a visionary company that has anticipated the market's needs. Over the years, the company has earned the confidence of consumers, professionals and its partners and achieved the enviable status of being the number 1 manufacturer of electric heating appliances in North America. Stelpro continually reinvents the heating industry with its value-added philosophy based on design and technology that transcend the purely functional nature of the devices. It is firmly established in the smart home market with its range of connected products and is laying the groundwork to become a major energy transition player.

1981-1990

KICK-OFF

Employees: from 1 to 30
Square footage: 25,000
Territory covered: Quebec

Armed with an undeniable flair for business, a desire for improvement and a marked desire for innovation, John Chabot founds Chalair Électrik, the company that will later become Stelpro, in Drummondville in 1981. From its early years, the company made its mark in the heating industry by developing and launching innovative products, like the first open element construction heater and the smallest and quietest recessable residential fan heater. The unit in question, the Pulsair/RWF, is still on the market, proving that the company was already at the forefront of its field at this time.

1991-2000

EXPANSION AND ACQUISITION

Employees: 150
Square footage: 46,000
Territory covered: Canada

The 1990s are a time of growth and change. First, the company moves to Boucherville, then in 1994, it acquires its competitor, Stelpro Chauffage ltée, thereby opening the doors to the Canadian market. By the end of the decade, Yves Chabot and his brother, a second generation of entrepreneurs, have joined the company. On the commercial level, the company breaks new ground again with the launch of the Dragon ceiling fan heater.

2001-2004

CONTINUED EXPANSION AND DIVERSIFICATION

Employees: 200
Square footage: 118,000
Territory covered: Canada

The beginning of the millennium marks a wind of change as the company continues to expand. A new head office and a state-of-the-art plant are built in St-Bruno-de-Montarville, and Chalair Électrik and Stelpro Chauffage merge to become Stelpro Design Inc. With an improved integrated production capacity that makes it the Canadian leader in its category, the new entity launches another phase of development by launching its heating cable division, always with a view to serving its customers well.

2005-2010
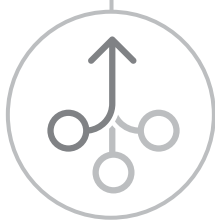
CONSOLIDATION

Employees: 310
Square footage: 198,600
Territory covered: Canada and emerging onto the U.S. market

The two Chabot brothers take over as company Co-Presidents, consolidate the company's leadership position in Canada and enter the U.S. market. The creation of the Electronic Controls Division and the HVAC Division makes it possible for Stelpro to offer a full range of products that provide heating and control solutions for residential, commercial and institutional needs. These changes do not come at the expense of innovation. The company continues to reinvent the heating industry by launching the B baseboard, which is still a benchmark on the market, the sturdiest in its category and the first baseboard with a built-in electronic thermostat.

2011-2016

NEW VISION

Employees: 430
Square footage: 216,600
Territory covered: North America

Yves Chabot becomes the sole president of Stelpro. Now a major player in the North American market, the company revamps its brand image and logo to better reflect its aspirations. "Stelpro, 360 Comfort" offers heating solutions tailored to each specific situation to ensure comfort for all.

°STELPRO
360 comfort

2016-...

GROWTH

Employees: 490
Square footage: 286,000
Territory covered: North America

Stelpro, well established as a North American leader, continues its expansion across all its product divisions (heating, cables, HVAC and controls) and sales channels (electrical, HVAC and retail). The company keeps focusing on value-added design and technology to set itself apart and offer its customers still greater added value. Moreover, the launch of the Maestro ecosystem puts the company in an enviable position in the connected home world. Today, Stelpro remains a visionary company with a plan to become a major energy transition player in North America while continuing to create innovative and distinctive comfort solutions.

FOUNDATION OF STELLO

Hilo by Hydro-Québec and Stelpro join forces to create the joint venture Stello, which specialises in smart home products.

May 5, 2021

BEST MANAGED COMPANIES

Platinum Club winner in Canada's Best Managed Companies competition.

CANADA BEST MANAGED COMPANIES | Platinum member

2021

2018 to 2020

EXPANSION

Stelpro expands its plant in St-Bruno-de-Montarville by 65,000 sq. ft. This expansion has enabled it to pursue automation and robotisation projects while boosting its productivity and production capacity.

November 2, 2020

ACQUISITION OF FLEXTHERM

Stelpro acquires Flextherm, a leader in the electric floor heating industry.

STELPRO GETS INVOLVED

Since its foundation, Stelpro has supported many community organizations and foundations by offering services or monetary donations to support causes the family holds dear.

4O
1981
2021
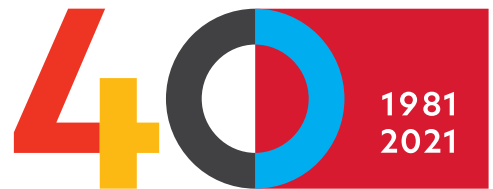
Designing the future of comfort

" Across North America, the future of heating will undoubtedly be electric, and we're ready. Electricity has been part of our DNA for 40 years. "
Yves Chabot

HVAC

Explore our range of central heating products. Stelpro HVAC products are perfect for dispersing warmth throughout a building and work in tandem to create your comfort ecosystem.

SFE/SFEX/SFECM | THE FURNACE

MODULATING ELECTRIC FURNACES WITH ELECTRONIC CONTROLS

THE FURNACE

THE ALL-INCLUSIVE FURNACE

At last, Stelpro has designed an electric furnace that meets all your expectations. Our The furnace products are the only ones on the market that come equipped with a built-in temperature sensor, making installation much easier. You can say goodbye to undesirable variances in temperature thanks to their state-of-the-art electronic controls! Moreover, a new model, the SFEX, has been added to our product line. Powered by an ECM motor, it meets all performance requirements and provides additional energy savings. Simply choose the model that best suits your needs!

NEW ELECTRONIC BOARD PROGRAMMING
COMPATIBLE WITH HEAT PUMP INSTALLATIONS

BUILT-IN TEMPERATURE SENSOR
MAINTAINS MINIMUM HEATED AIR AT ALL TIMES

STATE-OF-THE-ART ELECTRONIC CONTROLS
ECO MODE FOR INCREASED SAVINGS

ECM MOTOR
GUARANTEES SAVINGS, CONSTANT AIRFLOW AND GREATER EFFICIENCY (SFECM MODEL)

1 HP MOTOR AVAILABLE
STARTING FROM 20 KW

PRE-DRILLED PANELS
SIMPLIFY INSTALLATION AND CONNECTION

FINISH
• powder coat (charcoal)

MANUFACTURING
• robust galvanized steel cabinet
• easy access to electronic board to adjust the various potentiometers
• 20 in. x 20 in. air filter opening (filter not included)
• circuits composed exclusively of reliable relays

ELEMENTS
• modulating elements for increased comfort and separately framed allowing for quick and easy replacement

MOTOR
• totally enclosed, permanently lubricated motor
• ECM – preset motor speed (SFEX model)
• ECM – variable motor speed (SFECM model)

CONTROL
• electronic board that compensates when heat pump is in defrost mode
• easy-to-use modes
• continuous ventilation button (low or high speed)
• continuous heating button (min or max)
• simplified connection system
• mechanical relays allowing for easy and low-cost maintenance

INSTALLATION
• three possible installation positions: upflow, downflow or horizontal
• installation directly against a wall ("zero inch" clearance)
• three conductor installation possible

WARRANTY
• five years

SFEX, SFECM MODELS   SFE MODELS

TECHNICAL SPECIFICATIONS

PRODUCT	POWER AND VOLTAGE		AMPERAGE	MOTOR POWER	WEIGHT	
CODE	KILOWATTS	VOLTS	AMPERES	HP	KG	LB
SFE SERIES (Models available in Quebec only)						
SFE1021	10/7.5	240/208	44/38	1/3	45	100
SFE1521	15/11.2	240/208	65/56	1/3	45	100
SFE1821	17.5/13.2	240/208	75/66	1/3	45	100
SFE2021	20/15	240/208	85/74	1/3	45	100
SFE2321	22.5/16.9	240/208	96/84	1/3	45	100
SFE2721	27.5/20.7	240/208	119/104	1	48	105
SFE3021	30/22.5	240/208	130/113	1	48	105
SFE20211HP	20/15	240/208	88/77	1	48	105
SFE23211HP	22.5/16.9	240/208	99/87	1	48	105
SFEX SERIES						
SFEX1021	10/7.5	240/208	44/38	1/3	45	100
SFEX1521	15/11.2	240/208	65/56	1/3	45	100
SFEX1821	17.5/13.2	240/208	75/66	1/3	45	100
SFEX2021	20/15	240/208	85/74	1/3	45	100
SFEX2321	22.5/16.9	240/208	96/84	1/3	45	100
SFEX2721	27.5/20.7	240/208	119/104	3/4	52	115
SFEX3021	30/22.5	240/208	130/113	3/4	52	115
SFEX2021HP	20/15	240/208	88/77	3/4	52	115
SFEX2321HP	22.5/16.9	240/208	99/87	3/4	52	115
SFECM SERIES						
SFECM1021	10/7.5	240/208	44/38	1/2	45	100
SFECM1521	15/11.2	240/208	65/56	1/2	45	100
SFECM1821	17.5/13.2	240/208	75/66	1/2	45	100
SFECM2021	20/15	240/208	85/74	1/2	45	100
SFECM2321	22.5/16.9	240/208	96/84	1/2	45	100
SFECM2721	27.5/20.7	240/208	119/104	1	48	105
SFECM3021	30/22.5	240/208	130/113	1	48	105
SFECM20211HP	20/15	240/208	88/77	1	48	105
SFECM23211HP	22.5/16.9	240/208	99/87	1	48	105

See user guide for all technical specifications.

ACCESSORIES

PRODUCT	DESCRIPTION
FSB2	SFE furnace downflow adaptor
SCOND	neutral terminal for third conductor

ECM MOTOR – ELECTRONICALLY COMMUTATED MOTOR
COMFORT, EFFICIENCY, RELIABILITY AND SECURITY ARE AT THE HEART OF THE ECM

COMFORT   Comfort level can be increased if a variable speed motor is installed. This level cannot be reached with any other method. It also allows the user to select the low speed with the desired airflow in recirculation.

EFFICIENCY   Since it combines electronic circuits and a BLDC motor, it is the most efficient motor on the HVAC market. It can reach up to twice the capacity of a PSC motor.

RELIABILITY   All its electronic circuits are protected against condensation. Thanks to its design and materials, such as silicone elastomer, it is one of the most reliable motors on the market.

SECURITY   Its electronic system is protected by MOVs (metal oxide varistors) against lightning overvoltages.

INSTALLATION

DISCHARGE

AIR RETURN

UPFLOW POSITION

AIR RETURN

SEE EFFECTIVE CODES FOR THE FLOOR ADAPTOR

DISCHARGE

COMBUSTIBLE FLOOR

DOWNFLOW POSITION

DISCHARGE

AIR RETURN

HORIZONTAL POSITION

TECHNICAL DRAWINGS

CONTROL PANEL

BREAKER

FILTER RACK

33 9/16"
[852mm]

28 9/16"
[725mm]

18 3/4"
[476mm]

FRONT

LOW VOLTAGE INLET

KO Ø 1-3/8" [35mm] & 1-1/8"

KO Ø 1-3/4" [44mm] & 1-1/8"

RETURN
TYPICAL ON BOTH
SIDES, BACK AND
BOTTOM

17 5/16"
[440mm]

17 5/16"
[440mm]

SIDE

1 3/8"
[35mm]

17 1/4"
[437mm]

1 7/16"
[37mm]

22"
[559mm]

17 3/4"
[451mm]

DISCHARGE

20"
[508mm]

TOP

SCV
VENTILATION CABINET

5 YEAR* WARRANTY

THE SWISS ARMY KNIFE OF VENTILATION

Stelpro innovates once again with its new SCV ventilation cabinet for residential and commercial use. The Stelpro SCV ventilation cabinet is available in four practical formats with a variety of controls to meet the requirements of all types of installations. Combined with one of our SDHx coils, we get a custom-made furnace. Its flexibility, versatility and optimized controls make it the Swiss Army knife of ventilation.

WIDE VARIETY OF AIRFLOWS
400 CFM TO 2200 CFM

WIDE VARIETY OF CONTROLS FOR ALL TYPES OF INSTALLATIONS

QUICK AND EASY INSTALLATION

MULTIPOSITION INSTALLATION

COLOUR
• charcoal

FINISH
• powder paint

MANUFACTURING
• robust galvanized steel housing
• easy access to all components

MOTOR
• capacitor fan motor or ECM motor sealed and lubricated for life

CONTROL
• four types: low voltage, built-in, remote or without control
• user friendly digital interface (remote model only)

INSTALLATION
• multipositions (vertical ascending, vertical descending, horizontal)
• direct installation on walls ("zero inch" clearance)
• can be suspended from ceiling
• voltage 120 V, 208 V or 240 V

WARRANTY
• five years, *three years on electronic components

REMOTE CONTROL (ECM MODEL)

PRODUCT NUMBER LEGEND

SCV-E-14 0 2

PRODUCT SERIES: Stelpro **C**abinet **V**entilation

MOTOR: P = PSC; E = ECM

CFM x 100

TYPE OF CONTROL: 0 = WITHOUT CONTROL; 1 = BUILT-IN; 2 = REMOTE 4 FT*; 3 = REMOTE 10 FT*; 4 = LOW VOLTAGE CONTROL

VOLTAGE: 1 = 120 V - 2 = 240/208 V

* OPTIONS 2 AND 3 ARE AVAILABLE ONLY WITH SPEED OF 1400 AND 2200 CFM

c UL us LISTED

TECHNICAL SPECIFICATIONS

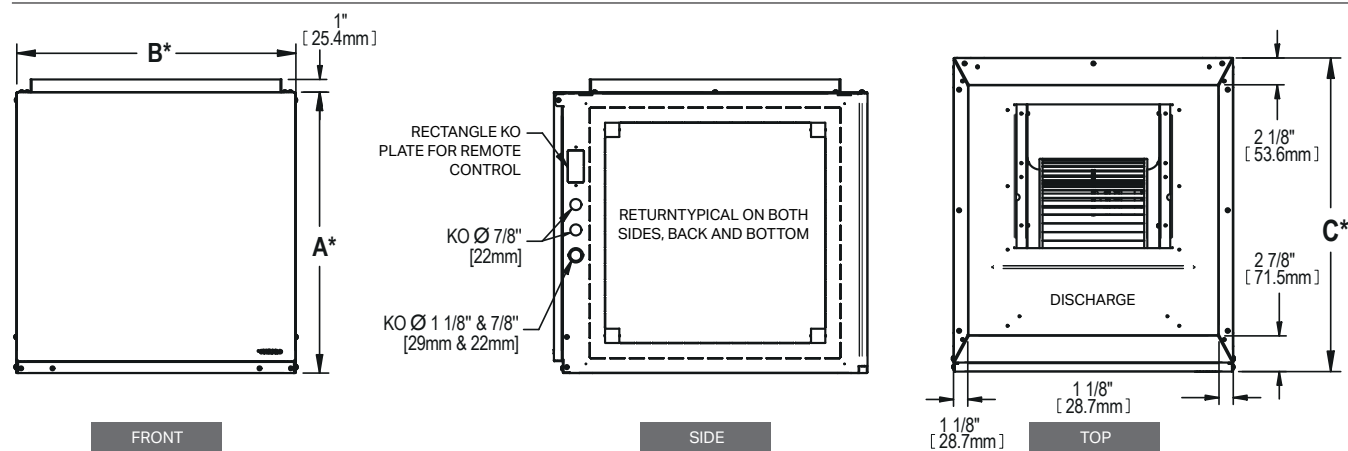| PRODUCT	VOLTAGE	AMPERAGE	SPEED		HEIGHT (A)	WIDTH (B)	DEPTH (C)	WEIGHT	
CODE	VOLTS	AMPERES	HP	CFM	IN.	IN.	IN.	LB	KG
SCV-P-401	120	4.6	1/3	400	18	14	20 3/4	40	18.2
SCV-P-441	120	4.6	1/3	400	18	14	20 3/4	40	18.2
SCV-P-442	240/208	2.2/2.3	1/3	400	18	14	20 3/4	40	18.2
SCV-P-411	120	4.6	1/3	400	18	14	20 3/4	40	18.2
SCV-P-412	240/208	2.2/2.3	1/3	400	18	14	20 3/4	40	18.2
SCV-P-601	120	4.6	1/3	600	18	14	20 3/4	40	18.2
SCV-P-641	120	4.6	1/3	600	18	14	20 3/4	40	18.2
SCV-P-642	240/208	2.2/2.3	1/3	600	18	14	20 3/4	40	18.2
SCV-P-611	120	4.6	1/3	600	18	14	20 3/4	40	18.2
SCV-P-612	240/208	2.2/2.3	1/3	600	18	14	20 3/4	40	18.2
SCV-P-841	120	4.6	1/3	800	20	18	22 3/4	50	22.7
SCV-P-811	120	4.6	1/3	800	20	18	22 3/4	50	22.7
SCV-P-812	240/208	2.2/2.3	1/3	800	20	18	22 3/4	50	22.7
SCV-P-1041	120	4.6	1/3	1000	20	18	22 3/4	50	22.7
SCV-P-1011	120	4.6	1/3	1000	20	18	22 3/4	50	22.7
SCV-P-1012	240/208	2.2/2.3	1/3	1000	20	18	22 3/4	50	22.7
SCV-P-1401	120	6.2	1/2	1400	22	22	24 3/4	60	27.3
SCV-P-1402	240/208	3.3/3.3	1/2	1400	22	22	24 3/4	60	27.3
SCV-P-1411	120	6.2	1/2	1400	22	22	24 3/4	60	27.3
SCV-P-1412	240/208	3.3/3.3	1/2	1400	22	22	24 3/4	60	27.3
SCV-P-2202	240/208	5.1/5.1	1	2200	26	26	28 3/4	80	36.4
SCV-P-2212	240/208	5.1/5.1	1	2200	26	26	28 3/4	80	36.4
SCV-E-611*	120	6.2	1/2	300 to 600	18	14	20 3/4	40	18.2
SCV-E-612*	240/208	2.2/2.3	1/2	300 to 600	18	14	20 3/4	40	18.2
SCV-E-1011*	120	6.2	1/2	300 to 1000	20	18	22 3/4	50	22.7
SCV-E-1012*	240/208	2.2/2.3	1/2	300 to 1000	20	18	22 3/4	50	22.7
SCV-E-1411*	120	6.2	1/2	300 to 1400	22	22	24 3/4	60	27.3
SCV-E-1412*	240/208	3.9	1/2	300 to 1400	22	22	24 3/4	60	27.3
SCV-E-1421*	120	6.2	1/2	300 to 1400	22	22	24 3/4	60	27.3
SCV-E-1422*	240/208	3.9	1/2	300 to 1400	22	22	24 3/4	60	27.3
SCV-E-1431*	120	6.2	1/2	300 to 1400	22	22	24 3/4	60	27.3
SCV-E-1432*	240/208	3.9	1/2	300 to 1400	22	22	24 3/4	60	27.3
SCV-E-2211*	120	11.5	1	400 to 2200	26	26	28 3/4	80	36.4
SCV-E-2212*	240/208	6.9	1	400 to 2200	26	26	28 3/4	80	36.4
SCV-E-2221*	120	11.5	1	400 to 2200	26	26	28 3/4	80	36.4
SCV-E-2222*	240/208	6.9	1	400 to 2200	26	26	28 3/4	80	36.4
SCV-E-2231*	120	11.5	1	400 to 2200	26	26	28 3/4	80	36.4
SCV-E-2232*	240/208	6.9	1	400 to 2200	26	26	28 3/4	80	36.4

* CFM adjustable with potentiometer. Maximum CFM measured at 0.5″ H$_2$O of static pressure
Custom model available – contact your representative.   For model SCV-E at 800 CFM, order a SCV-E-10XX.   For model SCV-E at 400 CFM, order a SCV-E-6XX.

TECHNICAL DRAWINGS

B* 1" [25.4mm]

A*

FRONT

RECTANGLE KO PLATE FOR REMOTE CONTROL

KO Ø 7/8" [22mm]

KO Ø 1 1/8" & 7/8" [29mm & 22mm]

RETURN TYPICAL ON BOTH SIDES, BACK AND BOTTOM

SIDE

2 1/8" [53.6mm]

C*

2 7/8" [71.5mm]

DISCHARGE

1 1/8" [28.7mm]

1 1/8" [28.7mm]

TOP

*Measurements indicated in the table above.

SDHx/SDHxT
CUSTOM DUCT HEATERS

SDHR

SDHF

SDHI

3 YEAR WARRANTY

CUSTOMIZED COMFORT!

Stelpro's series of custom duct heaters include three models: SDHI (insertion), SDHF (flange) and SDHR (round), all available customized. Each model in the series is available in different formats, allowing you great flexibility. These electric duct heaters are manufactured for all types of installations. Whether it is for an installation at the outlet of a VAV box, an air handler or fan coil unit, inside a commercial make-up air unit or an OEM application with a process air heater, the high manufacturing standards at Stelpro ensures a duct heater of unprecedented quality.

ELECTRONIC CONTROLS IMPROVED (OPTIONAL)

ULTRA-PRECISE ELECTRONIC AIR VELOCITY SENSOR (OPTIONAL - P OPTION)

REMOTE PLENUM THERMOSTAT (OPTIONAL)

FINISH
• 20 to 16 gauge galvanized steel cabinet resistant to corrosion

MANUFACTURING
• junction box door
• double thermal protections (manual and automatic)
• neoprene gasket (optional)
• Nema 4, Nema 4x and Nema 12 control box (optional)
• stainless steel element housing (optional)

ELEMENTS
• open, nichrome elements
• tubular in Incoloy 800
• modulation of the elements by SCR technology to maintain a constant temperature using only the required energy

CONTROL
• built-in temperature limit sensor (TT option)
• electronic air velocity sensor (P option)
• for more electronic control and card options, see the options and controls table
• control voltage: 0-10 V, 2-10 V (4-20mA), 24Vac (PWM), 24Vdc
• heater interlock included

INSTALLATION
• round duct starting at 4 in. (SDHR model)
• rectangular duct starting at 6 in. x 6 in. (SDHI and SDHF models)
• vertical, horizontal, upflow or downflow position
• "zero inch" clearance from flammable materials

WARRANTY
• three years

ELEMENTS
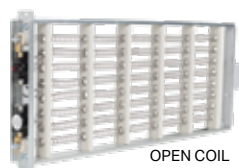
OPEN COIL
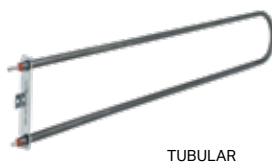
TUBULAR

ACCESSORIES

PRODUCT	DESCRIPTION
ET120	0-10 V electronic thermostat (Celcius only)
ET180	24 V electronic thermostat (Celcius only)
D010	24 V thermostat
D070	remote plenum thermostat*

* Used with CIR-048 only

TECHNICAL SPECIFICATIONS

PRODUCT	TYPE OF MODEL	POWER	VOLTAGE	PHASE	DUCT DIMENSIONS
CODE		KILOWATTS	VOLTS	NO.	STARTING FROM (IN.)
SDHI/SDHIT	INSERTION	UP TO 1000	120 TO 600	1 OR 3	6 X 6
SDHF/SDHFT	FLANGE	UP TO 1000	120 TO 600	1 OR 3	6 X 6
SDHR/SDHRT	ROUND	UP TO 1000	120 TO 600	1 OR 3	4

UL certification: 25.5 kW/sq.ft for SDHx and13 kW/sq.ft for SDHxT

ELECTRONIC CONTROLS

FEATURE	DESCRIPTION	TYPE OF CONTROL					
		TN	1ST	2ST	CIR-047	CIR-048	CIR-017/ CIR-011
		PRODUCT NUMBER CODE					
		E	1	2	B	A	C/D
CONTROL INPUT	BARE UNIT	•					
	24 V – 1 STAGE NON-MODULATING		•		•		
	24 V – 2 STAGE NON-MODULATING			•			
	24 V – PWM				•	•	
	0-10 V				•	•	•
	2-10V (4-20mA)					•	
	24 V – 1 STAGE MODULATING (0-100% MODULATION WHEN USED WITH OPTIONAL TEMPERATURE SENSOR)					•	•
	24 V – 2 STAGE MODULATING (0-60-100%)						•
	24 V – 3 STAGE MODULATING (0-40-70-100%)						•
	SELF MODE					•	•
HEATING OUTPUT	SCR				•	•	•
	RELAY AND/OR CONTACTOR		•	•	•	2	4/8
CONTROL TRANSFORMER	CONTROL TRANSFORMER		•	•	•	•	•
FAN OUTPUT	FAN RELAY (OPTIONAL – OPTION R)		•	•			•
SUPPLY DUCT TEMPERATURE SENSOR	MEASURE THE AIR TEMPERATURE AT THE EXIT OF THE COIL (OPTIONAL – OPTION T)					•	•
ELECTRONIC AIR VELOCITY SENSOR	MEASURE THE AIR VELOCITY IN THE DUCT (OPTIONAL – OPTION P)				•	•	•
BUILT-IN TEMPERATURE LIMIT SENSOR	MEASURE THE AMBIENT AIR TEMPERATURE NEAR THE ELECTRIC COIL ELEMENTS (OPTIONAL – OPTION TT)				•	•	
AUTO DIAGNOSTIC	FAULT DISPLAY						•
USER INTERFACE	LEDS AND POTENTIOMETER					•	
	NUMERICAL DISPLAY AND BUTTONS						•
REMOTE CONTROL	DEPORTED PLENUM THERMOSTAT (OPTIONAL ACCESSORY)					•	

OPTIONS

OPTION	DESCRIPTION
D	TRANSFORMER NOT INCLUDED
E	REMOTE CONTROL BOX
F	VERTICAL INSTALLATION IN HORIZONTAL AIRFLOW
G	SAFETY MESH ON LEFT SIDE
H	SAFETY MESH ON RIGHT SIDE
I	MAIN BREAKERS
J	MAIN DISCONNECT SWITCH
K	MAIN LINE FUSES
L	LOAD FUSES
N	DIFFERENTIAL PRESSURE SWITCH
O	OEM
P	ELECTRONIC AIR VELOCITY SENSOR
R	FAN RELAY
S	HORIZONTAL INSTALLATION IN VERTICAL AIRFLOW
T	SUPPLY DUCT TEMPERATURE SENSOR

OPTIONS

OPTION	DESCRIPTION
V	SCR RATED FOR DOUBLE REQUIRED AMPERAGE
W	PILOT LIGHT
X	80/20 NICR GRADE A ELEMENT
Y	UNBALANCED THREE STAGE SYSTEM
CC	CONTROL BOX WITH RIGHT EXTENSION
GG	PERFORATED 1/2″ DIFFUSER GRILL
HH	NEMA 4 OR NEMA 4X CONTROL BOX (NEMA 12 INCLUDED)
II	CONTROL BOX EQUAL TO THE DUCT HEIGHT
JJ	DISCONNECT SWITCH WITH DOOR INTERLOCK
KK	CONTROL FUSE
LL	SCR RELAY ON EACH CIRCUIT
PP	HINGED DOOR
SS	STAINLESS STEEL ELEMENT HOUSING
TT	BUILT-IN TEMPERATURE LIMIT SENSOR
-#	UNIQUE IDENTIFICATION MODEL

PRODUCT NUMBER LEGEND

SDH X (X) (X) (X) (X) (X) (X) (X)

PRODUCT SERIES: **S**telpro **D**uct **H**eater

MODEL: FLANGE = F / INSERTION = I / ROUND = R

ELEMENTS: OPEN COIL (standard) = Leave empty / TUBULAR (optional) = T

DUCT DIMENSION: 2 to 14 alphanumeric digits; Ex. #1: 16.5 x 19.25 (for a rectangular duct) – Ex. #2: 16.5 (for a round duct)

KILOWATTS: 2 to 8 alphanumeric digits; Ex.: 12K (for 12 kW)

VOLTS: 4 alphanumeric digits; Ex.: 240V

PHASE: 2 alphanumeric digits; Ex.: 1P or 3P

AVAILABLE CONTROLS*

AVAILABLE OPTIONS

* A = ClR-048
  B = ClR-047
  C = ClR-017
  D = ClR-011
  E = TN
  1 = 1ST
  2 = 2ST

POWER CAPACITY TABLE

AIRFLOW (CFM)	CAPACITY REQUIRED IN WATTS IN RELATION TO AIRFLOW AND TEMPERATURE RISE														
	TEMPERATURE RISE (DELTA) IN °F														
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75
100	161	323	484	645	806	968	1129	1290	1452	1613	1774	1935	2097	2258	2419
150	242	484	726	968	1210	1452	1694	1935	2177	2419	2661	2903	3145	3387	3629
200	323	645	968	1290	1613	1935	2258	2581	2903	3226	3548	3871	4194	4516	4839
250	403	806	1210	1613	2016	2419	2823	3226	3629	4032	4435	4839	5242	5645	6048
300	484	968	1452	1935	2419	2903	3387	3871	4355	4839	5323	5806	6290	6774	7258
350	565	1129	1694	2258	2823	3387	3952	4516	5081	5645	6210	6774	7339	7903	8468
400	645	1290	1935	2581	3226	3871	4516	5161	5806	6452	7097	7742	8387	9032	9677
450	726	1452	2177	2903	3629	4355	5081	5806	6532	7258	7984	8710	9435	10 161	10 887
500	806	1613	2419	3226	4032	4839	5645	6452	7258	8065	8871	9677	10 484	11 290	12 097
550	887	1774	2661	3548	4435	5323	6210	7097	7984	8871	9758	10 645	11 532	12 419	13 306
600	968	1935	2903	3871	4839	5806	6774	7742	8710	9677	10 645	11 613	12 581	13 548	14 516
650	1048	2097	3145	4194	5242	6290	7339	8387	9435	10 484	11 532	12 581	13 629	14 677	15 726
700	1129	2258	3387	4516	5645	6774	7903	9032	10 161	11 290	12 419	13 548	14 677	15 806	16 935
750	1210	2419	3629	4839	6048	7258	8468	9677	10 887	12 097	13 306	14 516	15 726	16 935	18 145
800	1290	2581	3871	5161	6452	7742	9032	10 323	11 613	12 903	14 194	15 484	16 774	18 065	19 355
850	1371	2742	4113	5484	6855	8226	9597	10 968	12 339	13 710	15 081	16 452	17 823	19 194	20 565
900	1452	2903	4355	5806	7258	8710	10 161	11 613	13 065	14 516	15 968	17 419	18 871	20 323	21 774
950	1532	3065	4597	6129	7661	9194	10 726	12 258	13 790	15 323	16 855	18 387	19 919	21 452	22 984
1000	1613	3226	4839	6452	8065	9677	11 290	12 903	14 516	16 129	17 742	19 355	20 968	22 581	24 194
1050	1694	3387	5081	6774	8468	10 161	11 855	13 548	15 242	16 935	18 629	20 323	22 016	23 710	25 403
1100	1774	3548	5323	7097	8871	10 645	12 419	14 194	15 968	17 742	19 516	21 290	23 065	24 839	26 613
1150	1855	3710	5565	7419	9274	11 129	12 984	14 839	16 694	18 548	20 403	22 258	24 113	25 968	27 823
1200	1935	3871	5806	7742	9677	11 613	13 548	15 484	17 419	19 355	21 290	23 226	25 161	27 097	29 032
1250	2016	4032	6048	8065	10 081	12 097	14 113	16 129	18 145	20 161	22 177	24 194	26 210	28 226	30 242
1300	2097	4194	6290	8387	10 484	12 581	14 677	16 774	18 871	20 968	23 065	25 161	27 258	29 355	31 452
1350	2177	4355	6532	8710	10 887	13 065	15 242	17 419	19 597	21 774	23 952	26 129	28 306	30 484	32 661
1400	2258	4516	6774	9032	11 290	13 548	15 806	18 065	20 323	22 581	24 839	27 097	29 355	31 613	33 871
1450	2339	4677	7016	9355	11 694	14 032	16 371	18 710	21 048	23 387	25 726	28 065	30 403	32 742	35 081
1500	2419	4839	7258	9677	12 097	14 516	16 935	19 355	21 774	24 194	26 613	29 032	31 452	33 871	36 290
1550	2500	5000	7500	10 000	12 500	15 000	17 500	20 000	22 500	25 000	27 500	30 000	32 500	35 000	37 500
1600	2581	5161	7742	10 323	12 903	15 484	18 065	20 645	23 226	25 806	28 387	30 968	33 548	36 129	38 710

Note: For all values that do not appear in this table, you may calculate them using the following formula:
WATTS = (flow in CFM) X (TEMP. delta °F) / 3.1

MAXIMUM CAPACITY BY DIMENSION (IN KW)

SDHx

HEIGHT (IN.) \ LENGTH (IN.)	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60
4	2	4	5	7	8	9	11	12	14	15	17	18	19	21	22	24	25	26	28	29	31	32	34	35	36	38	39	41	42
6	4	6	8	10	12	14	17	19	21	23	25	27	29	31	34	36	38	40	42	44	46	48	51	53	55	57	59	61	63
8	5	8	11	14	17	19	22	25	28	31	34	36	39	42	45	48	51	53	56	59	62	65	68	70	73	76	79	82	85
10	7	10	14	17	21	24	28	31	35	38	42	46	49	53	56	60	63	67	70	74	77	81	85	88	92	95	99	102	106
12	8	12	17	21	25	29	34	38	42	46	51	55	59	63	68	72	76	80	85	89	93	97	102	106	110	114	119	123	127
14	9	14	19	24	29	34	39	44	49	54	59	64	69	74	79	84	89	94	99	104	109	114	119	123	128	133	138	143	148
16	11	17	22	28	34	39	45	51	56	62	68	73	79	85	90	96	102	107	113	119	124	130	136	141	147	153	158	164	170
18	12	19	25	31	38	44	51	57	63	70	76	82	89	95	102	108	114	121	127	133	140	146	153	159	165	172	178	184	191
20	14	21	28	35	42	49	56	63	70	77	85	92	99	106	113	120	127	134	141	148	155	162	170	177	184	191	198	205	212
22	15	23	31	38	46	54	62	70	77	85	93	101	109	116	124	132	140	148	155	163	171	179	187	194	202	210	218	225	233
24	17	25	34	42	51	59	68	76	85	93	102	110	119	127	136	144	153	161	170	178	187	195	204	212	221	229	238	246	255
26	18	27	36	46	55	64	73	82	92	101	110	119	128	138	147	156	165	174	184	193	202	211	221	230	239	248	257	267	276
28	19	29	39	49	59	69	79	89	99	109	119	128	138	148	158	168	178	188	198	208	218	228	238	247	257	267	277	287	297
30	21	31	42	53	63	74	85	95	106	116	127	138	148	159	170	180	191	201	212	223	233	244	255	265	276	286	297	308	318
32	22	34	45	56	68	79	90	102	113	124	136	147	158	170	181	192	204	215	226	238	249	260	272	283	294	306	317	328	340
34	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	252	264	276	289	301	313	325	337	349	361
36	25	38	51	63	76	89	102	114	127	140	153	165	178	191	204	216	229	242	255	267	280	293	306	318	331	344	357	369	382
38	26	40	53	67	80	94	107	121	134	148	161	174	188	201	215	228	242	255	269	282	296	309	323	336	349	363	376	390	403
40	28	42	56	70	85	99	113	127	141	155	170	184	198	212	226	240	255	269	283	297	311	325	340	354	368	382	396	410	425
42	29	44	59	74	89	104	119	133	148	163	178	193	208	223	238	252	267	282	297	312	327	342	357	371	386	401	416	431	446
44	31	46	62	77	93	109	124	140	155	171	187	202	218	233	249	264	280	296	311	327	342	358	374	389	405	420	436	451	467
46	32	48	65	81	97	114	130	146	162	179	195	211	228	244	260	276	293	309	325	342	358	374	391	407	423	439	456	472	488
48	34	51	68	85	102	119	136	153	170	187	204	221	238	255	272	289	306	323	340	357	374	391	408	425	442	459	476	493	510
50	35	53	70	88	106	123	141	159	177	194	212	230	247	265	283	301	318	336	354	371	389	407	425	442	460	478	495	513	531
52	36	55	73	92	110	128	147	165	184	202	221	239	257	276	294	313	331	349	368	386	405	423	442	460	478	497	515	534	552
54	38	57	76	95	114	133	153	172	191	210	229	248	267	286	306	325	344	363	382	401	420	439	459	478	497	516	535	554	573
56	39	59	79	99	119	138	158	178	198	218	238	257	277	297	317	337	357	376	396	416	436	456	476	495	515	535	555	575	595
58	41	61	82	102	123	143	164	184	205	225	246	267	287	308	328	349	369	390	410	431	451	472	493	513	534	554	575	595	616
60	42	63	85	106	127	148	170	191	212	233	255	276	297	318	340	361	382	403	425	446	467	488	510	531	552	573	595	616	637

Maximum density: 25.5 kW/sq.ft
Note: The values indicated in the table above are not limited to dimensions of 60 in. x 60 in.

SDHxT

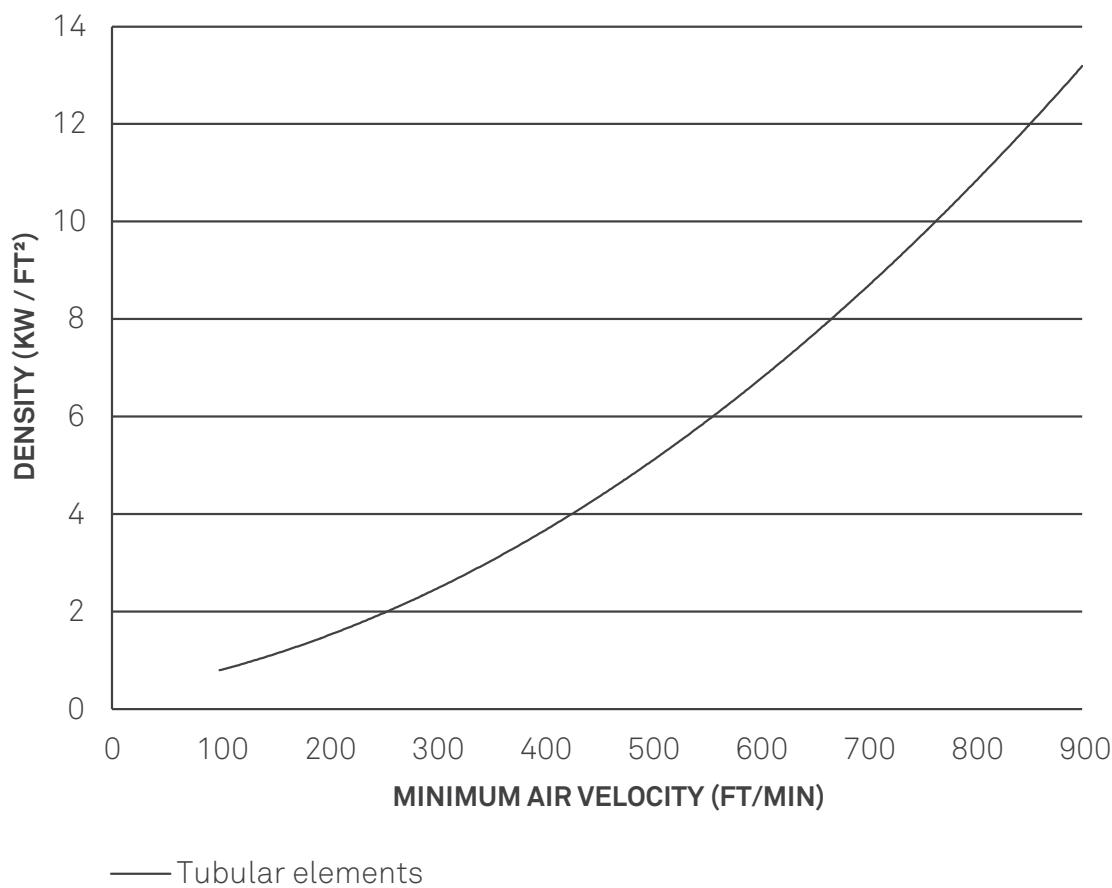| HEIGHT (IN.) \ LENGTH (IN.)	8	10	12	14	16	18	20	22	24
8	5.8	7.2	8.7	10.1	11.6	13.0	14.4	15.9	17.3
10	7.2	9.0	10.8	12.6	14.4	16.3	18.1	19.9	21.7
12	8.7	10.8	13.0	15.2	17.3	19.5	21.7	23.8	26.0
14	10.1	12.6	15.2	17.7	20.2	22.8	25.3	27.8	30.3
16	11.6	14.4	17.3	20.2	23.1	26.0	28.9	31.8	34.7
18	13.0	16.3	19.5	22.8	26.0	29.3	32.5	35.8	39.0
20	14.4	18.1	21.7	25.3	28.9	32.5	36.1	39.7	43.3
22	15.9	19.9	23.8	27.8	31.8	35.8	39.7	43.7	47.7
24	17.3	21.7	26.0	30.3	34.7	39.0	43.3	47.7	52.0

Maximum density: 13 kW/sq.ft
Note: The values indicated in the table above are not limited to dimensions of 24 in. x 24 in.

STATIC PRESSURE LOSS

—— Open coil elements

----- Tubular elements
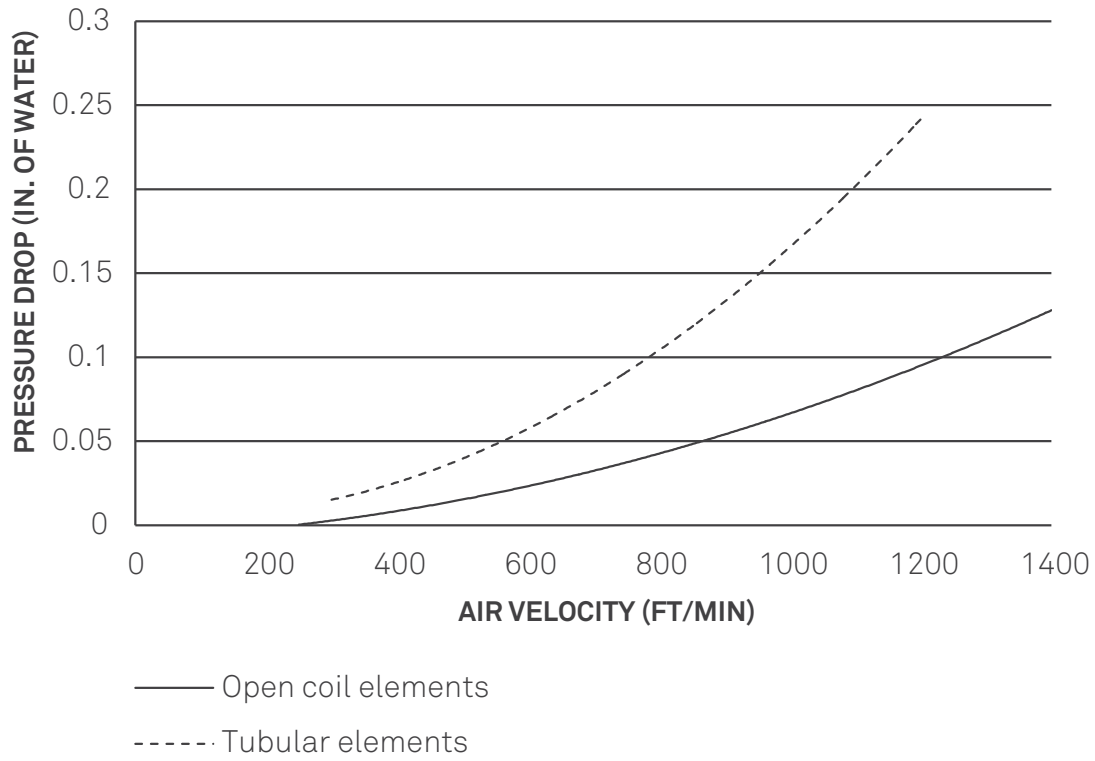
MINIMUM AIR VELOCITY REQUIRED

—— Tubular elements

SDHR
ROUND DUCT HEATER

3 YEAR WARRANTY

TAKE CONTROL OF YOUR COMFORT

Whether it is for preheating ventilation air or for heating a room, the SDHR is powerful enough to raise the temperature to the desired level. Its modulation system and temperature sensor will give you accurate and efficient performance. Available in several sizes and capacities, there is certainly a model for you.

4 LEVELS OF SECURITY
MANUAL PROTECTION, AUTOMATIC PROTECTION, TERMINAL BLOCK, BUILT-IN TEMPERATURE LIMIT SENSOR

5 TYPES OF CONTROL
0-10 V, 2-10 V, PWM, 24 VDC OR 24 VAC CONTROL

TEMPERATURE CONTROL POTENTIOMETER

MODULATION OF THE ELEMENTS
SCR TECHNOLOGY

FINISH
- 22 and 20 gauge galvanized steel cabinet resistant to corrosion

MANUFACTURING
- junction box door
- double thermal protections (manual and automatic) for each element
- built-in temperature limit sensor (TT sensor)
- supply duct temperature sensor (60 in. - 5 ft)
- optional electronic air velocity sensor (P sensor) (KIT -SEN-005)

WATTAGE & VOLTAGE
- see the technical specifications table (other models available upon request)

ELEMENTS
- open, nichrome elements
- modulation of the elements by the SCR technology to maintain a constant temperature using only the required energy

CONTROL
- thermostat 24 Vac; thermostat or controller (0-10 Vdc); thermostat or controller (PWM); thermostat or controller (2-10 V); thermostat or controller (24 Vdc)

INSTALLATION
- 5 in. to 12 in. round duct
- vertical, horizontal, upflow or downflow position
- "zero inch" clearance from flammable materials

WARRANTY
- three years
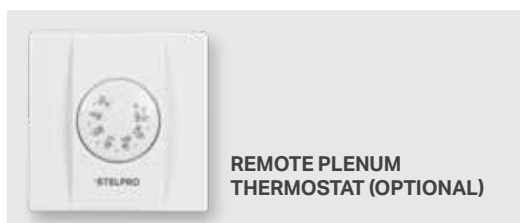
REMOTE PLENUM THERMOSTAT (OPTIONAL)

ACCESSORIES

PRODUCT	DESCRIPTION
ET120	0-10 V electronic thermostat (Celcius only)
ET180	24 V electronic thermostat (Celcius only)
D010	24 V thermostat
D070	remote plenum thermostat*
KIT-SEN-005	SDH electronic air velocity sensor

* Used with CIR-048 only

c UL us LISTED

TECHNICAL SPECIFICATIONS

PRODUCT	POWER	VOLTAGE	SHIPPING WEIGHT		MINIMUM FLOW*
CODE	WATTS	VOLTS	KG	LB	CFM/KW
5 IN. DUCT (HEIGHT: 8 IN., DEPTH: 12 11/16 IN.)					
SDHR05005001	500	120	6.8	15	50
SDHR05005002	500/375	240/208	6.8	15	50
SDHR05005003	500	347	6.8	15	50
SDHR05010001	1000	120	6.8	15	50
SDHR05010002	1000/750	240/208	6.8	15	50
SDHR05010003	1000	347	6.8	15	50
SDHR05015001	1500	120	6.8	15	50
SDHR05015002	1500/1125	240/208	6.8	15	50
SDHR05015003	1500	347	6.8	15	50
SDHR05020001	2000	120	6.8	15	50
SDHR05020002	2000/1500	240/208	6.8	15	50
SDHR05020003	2000	347	6.8	15	50
SDHR05030002	3000/2250	240/208	6.8	15	50
SDHR05030003	3000	347	6.8	15	50
6 IN. DUCT (HEIGHT: 8 IN., DEPTH: 12 11/16 IN.)					
SDHR06005001	500	120	7.3	16	50
SDHR06005002	500/375	240/208	7.3	16	50
SDHR06005003	500	347	7.3	16	50
SDHR06010001	1000	120	7.3	16	50
SDHR06010002	1000/750	240/208	7.3	16	50
SDHR06010003	1000	347	7.3	16	50
SDHR06015001	1500	120	7.3	16	50
SDHR06015002	1500/1125	240/208	7.3	16	50
SDHR06015003	1500	347	7.3	16	50
SDHR06020001	2000	120	7.3	16	50
SDHR06020002	2000/1500	240/208	7.3	16	50
SDHR06020003	2000	347	7.3	16	50
SDHR06030002	3000/2250	240/208	7.3	16	50
SDHR06030003	3000	347	7.3	16	50
SDHR06040002	4000/3000	240/208	7.3	16	50
SDHR06040003	4000	347	7.3	16	50
SDHR06050002	5000/3750	240/208	7.3	16	50
SDHR06050003	5000	347	7.3	16	50
8 IN. DUCT (HEIGHT: 9 1/4 IN., DEPTH: 15 IN.)					
SDHR08005002	500/375	240/208	7.5	17	50
SDHR08005003	500	347	7.5	17	50
SDHR08010002	1000/750	240/208	7.5	17	50
SDHR08010003	1000	347	7.5	17	50
SDHR08015002	1500/1125	240/208	7.5	17	50
SDHR08015003	1500	347	7.5	17	50
SDHR08020002	2000/1500	240/208	7.5	17	50
SDHR08020003	2000	347	7.5	17	50
SDHR08030002	3000/2250	240/208	7.5	17	50
SDHR08030003	3000	347	7.5	17	50
SDHR08040002	4000/3000	240/208	7.5	17	50
SDHR08040003	4000	347	7.5	17	50
SDHR08050002	5000/3750	240/208	7.5	17	50
SDHR08050003	5000	347	7.5	17	50
SDHR08060002	6000/4500	240/208	7.5	17	50
SDHR08060003	6000	347	7.5	17	50

Add DS for disconnect switch models

TECHNICAL SPECIFICATIONS

PRODUCT	POWER	VOLTAGE	SHIPPING WEIGHT		MINIMUM FLOW*
CODE	WATTS	VOLTS	KG	LB	CFM/KW
10 IN. DUCT (HEIGHT: 11 1/4 IN., DEPTH: 17 1/4 IN.)					
SDHR10005002	500/375	240/208	9.1	20	50
SDHR10005003	500	347	9.1	20	50
SDHR10010002	1000/750	240/208	9.1	20	50
SDHR10010003	1000	347	9.1	20	50
SDHR10015002	1500/1125	240/208	9.1	20	50
SDHR10015003	1500	347	9.1	20	50
SDHR10020002	2000/1500	240/208	9.1	20	50
SDHR10020003	2000	347	9.1	20	50
SDHR10030002	3000/2250	240/208	9.1	20	50
SDHR10030003	3000	347	9.1	20	50
SDHR10040002	4000/3000	240/208	9.1	20	50
SDHR10040003	4000	347	9.1	20	50
SDHR10050002	5000/3750	240/208	9.1	20	50
SDHR10050003	5000	347	9.1	20	50
SDHR10060002	6000/4500	240/208	9.1	20	50
SDHR10060003	6000	347	9.1	20	50
SDHR10080002	8000/6000	240/208	9.1	20	50
SDHR10080003	8000	347	9.1	20	50
SDHR10100002	10 000/7500	240/208	9.1	20	50
SDHR10100003	10 000	347	9.1	20	50
12 IN. DUCT (HEIGHT: 13 1/4 IN., DEPTH: 19 1/4 IN.)					
SDHR12005002	500/375	240/208	10.4	23	50
SDHR12005003	500	347	10.4	23	50
SDHR12010002	1000/750	240/208	10.4	23	50
SDHR12010003	1000	347	10.4	23	50
SDHR12015002	1500/1125	240/208	10.4	23	50
SDHR12015003	1500	347	10.4	23	50
SDHR12020002	2000/1500	240/208	10.4	23	50
SDHR12020003	2000	347	10.4	23	50
SDHR12030002	3000/2250	240/208	10.4	23	50
SDHR12030003	3000	347	10.4	23	50
SDHR12040002	4000/3000	240/208	10.4	23	50
SDHR12040003	4000	347	10.4	23	50
SDHR12050002	5000/3750	240/208	10.4	23	50
SDHR12050003	5000	347	10.4	23	50
SDHR12060002	6000/4500	240/208	10.4	23	50
SDHR12060003	6000	347	10.4	23	50
SDHR12080002	8000/6000	240/208	10.4	23	50
SDHR12080003	8000	347	10.4	23	50
SDHR12100002	10 000/7500	240/208	10.4	23	50
SDHR12100003	10 000	347	10.4	23	50

Add DS for disconnect switch models

SB
DUAL ENERGY DUCT HEATER

AUTONOMY + SAVINGS = DUAL ENERGY DUCT HEATER

The Stelpro duct heater is designed to guarantee maximum operational safety while ensuring comfort and economy. It is offered in two sizes and combined with a deflector kit for better performance and increased versatility. Please contact your local contractor or Hydro-Québec for details on how to save with the Residential Rate DT.

SUBSTANTIAL SAVINGS
THANKS TO HYDRO-QUEBEC'S RESIDENTIAL RATE DT (PROVINCE OF QUEBEC ONLY)

TEMPERATURE SENSOR
FOR A CONSTANT TEMPERATURE AND OVERHEATING DETECTION

INTERLOCK DEVICE
PREVENTS THE SIMULTANEOUS START-UP OF TWO HEATING SOURCES

DEFLECTOR KIT
PERMITS TO ADAPT TO AN EXISTING SYSTEM

USER-FRIENDLY CONTROLS

COLOR
• charcoal

FINISH
• galvanized steel

MANUFACTURING
• robust monopiece galvanized steel cabinet
• pilot lights that clearly identify the selected modes
• deflector kit (included)
• plenum temperature sensor (abnormal condition detection)
• diagnostic pilot lights
• each element is protected by a set of thermal cut-outs (manual and automatic)

HEATING ASSEMBLY AREA
• 16 in. x 18 in.
• 19 in. x 19 in.

ELEMENTS
• modulating elements for increased comfort and separately framed allowing for quick and easy replacement

CONTROL
• mode selector
• auto transfer function

INSTALLATION
• upflow position

WARRANTY
• three years

TECHNICAL SPECIFICATIONS

PRODUCT	POWER & VOLTAGE		AMPERAGE	HEATING ASSEMBLY AREA		HEIGHT OA		WIDTH OA		DEPTH OA	
CODE	KW	VOLTS	AMPERES	MM	IN.	MM	IN.	MM	IN.	MM	IN.
SB05211	5/3.8	240/208	20.8/18.1	406 X 457	16 X 18	319	12 9/16	511	20 1/8	522 - 548	20 9/16 - 23 9/16
SB05212	5/3.8	240/208	20.8/18.1	483 X 483	19 X 19	319	12 9/16	511	20 1/8	522 - 548	20 9/16 - 23 9/16
SB10211	10/7.5	240/208	41.7/36.1	406 X 457	16 X 18	319	12 9/16	511	20 1/8	522 - 548	20 9/16 - 23 9/16
SB10212	10/7.5	240/208	41.7/36.1	483 X 483	19 X 19	319	12 9/16	511	20 1/8	522 - 548	20 9/16 - 23 9/16
SB15211	15/11.3	240/208	62.5/54.2	406 X 457	16 X 18	319	12 9/16	511	20 1/8	522 - 548	20 9/16 - 23 9/16
SB15212	15/11.3	240/208	62.5/54.2	483 X 483	19 X 19	319	12 9/16	511	20 1/8	522 - 548	20 9/16 - 23 9/16
SB18211	18/13.5	240/208	75/65	406 X 457	16 X 18	319	12 9/16	511	20 1/8	522 - 548	20 9/16 - 23 9/16
SB18212	18/13.5	240/208	75/65	483 X 483	19 X 19	319	12 9/16	511	20 1/8	522 - 548	20 9/16 - 23 9/16
SB20211	20/15	240/208	83.3/72.2	406 X 457	16 X 18	319	12 9/16	511	20 1/8	522 - 548	20 9/16 - 23 9/16
SB20212	20/15	240/208	83.3/72.2	483 X 483	19 X 19	319	12 9/16	511	20 1/8	522 - 548	20 9/16 - 23 9/16
SB23211	23/17.3	240/208	95.8/83.1	406 X 457	16 X 18	319	12 9/16	511	20 1/8	522 - 548	20 9/16 - 23 9/16
SB23212	23/17.3	240/208	95.8/83.1	483 X 483	19 X 19	319	12 9/16	511	20 1/8	522 - 548	20 9/16 - 23 9/16
SB27211	27/20.3	240/208	112.5/97.5	406 X 457	16 X 18	319	12 9/16	511	20 1/8	522 - 548	20 9/16 - 23 9/16
SB27212	27/20.3	240/208	112.5/97.5	483 X 483	19 X 19	319	12 9/16	511	20 1/8	522 - 548	20 9/16 - 23 9/16
SB30211	30/22.5	240/208	125/108.3	406 X 457	16 X 18	319	12 9/16	511	20 1/8	522 - 548	20 9/16 - 23 9/16
SB30212	30/22.5	240/208	125/108.3	483 X 483	19 X 19	319	12 9/16	511	20 1/8	522 - 548	20 9/16 - 23 9/16

MODE ADJUSTMENTS

SB SÉRIES | SÉRIE

STELPRO S°

BIÉNERGIE / DUAL ENERGY
- ÉLECTRIQUE/ELECTRIC
- COMBUSTIBLE/FOSSIL FUEL
- THERMOSTAT

COMBUSTIBLE / FOSSIL FUEL
- MARCHE/ON

ÉLECTRIQUE / ELECTRIC
- MARCHE/ON

DUAL ENERGY MODE	FOSSIL FUEL MODE	ELECTRIC MODE
heating mode changes automatically depending on the temperature outside	only fossil fuel is used	only the duct heater is used

INSTALLATION

AIRFLOW

TEMPERATURE SENSOR

PLENUM-HEATER

COOLING COIL

FURNACE

UPFLOW POSITION

SUPPLY DUCT

3" [76mm] MINIMUM

28" [711mm] MINIMUM

7 1/2" MINIMUM [191mm]

10" [254mm] MINIMUM

48" [1220mm] MINIMUM FROM THE BLOWER

FURNACE

EVACUATION PIPE

WALL OR OBSTRUCTION

4" [102mm] MINIMUM

7" [178mm] MINIMUM

COOLING COIL

FURNACE
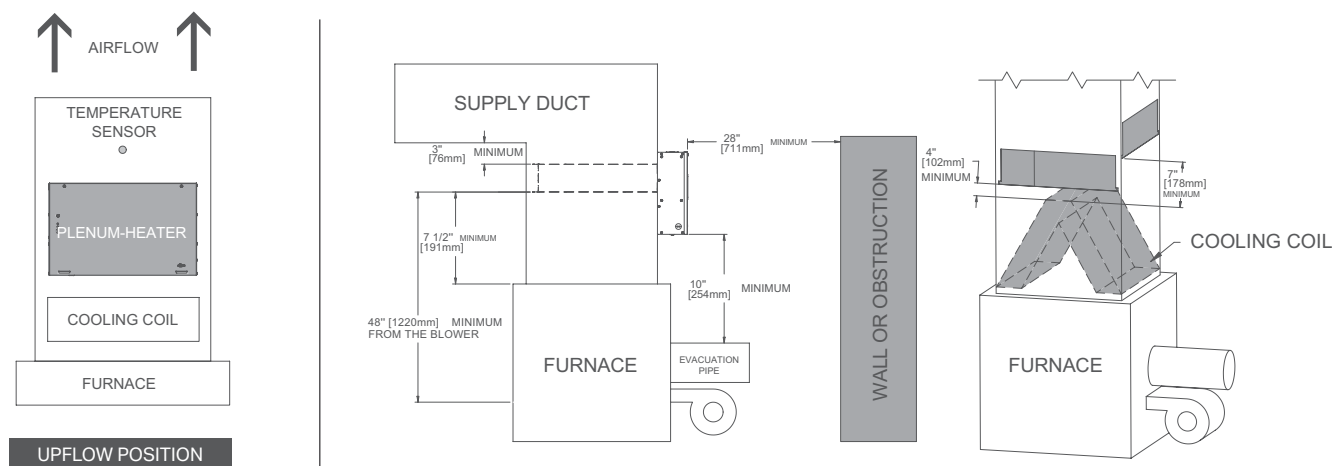
MUAA
MAKE-UP AIR UNIT

GET SOME FRESH AIR... INDOORS!

The MUAA distributes tempered fresh air to provide maximum comfort to the occupants in a well-ventilated home. The heating elements modulate continuously, allowing to heat fresh air at a lower cost. Compact and flexible, this unit has multiple installation positions (horizontal, vertical upflow or downflow) and a plenum kit that allows it to be installed into confined spaces. The MUAA meets ANSI/UL 1995 and ASHRAE 62.2 requirements *(Ventilation and acceptable indoor air quality in low-rise residential buildings)*.

THE MOST COMPACT AND LIGHTWEIGHT ON THE MARKET

MULTIPLE INSTALLATION POSITIONS

INTEGRATED TEMPERATURE SENSOR FOR EASY INSTALLATION

TWO MODES OF OPERATION CONTINUOUS AND INTERMITTENT

EASY ACCESS TO ELECTRICAL AND MECHANICAL COMPONENTS

PLENUM KIT FOR INSTALLATION INTO CONFINED SPACES

FINISH
- 22-gauge galvanized steel cabinet resistant to corrosion

MANUFACTURING
- removable electric elements with automatic thermal protection
- manual thermal protection
- built-in temperature sensor
- spring backdraft damper with gasket
- easily accessible, washable aluminum filter

ELEMENTS
- open, nichrome elements
- modulation of the elements by the SCR technology to maintain a constant temperature using only the required energy

CONTROL
- wall control (MUAA06 120V-1P and 240/208V-1P models)
- terminal strip for exhaust fan (MUAA06 120V-1P and 240/208V-1P models)
- current switch to synchronize with activation of an exhaust fan (other models)

INSTALLATION
- 6 in. to 12 in. round duct
- horizontal air flow for all models
- vertical air upflow or downflow on 6 in. to 10 in. models only
- "zero inch" clearance from flammable materials

WARRANTY
- three years, *five years on elements

CURRENT SWITCH

WALL CONTROL

ACCESSORIES

PRODUCT	DESCRIPTION
SWI-037	wall control (included with the MUAA06 120V-1P and 240/208V-1P models)
MUAA6-DIS*	disconnect switch 6 in (25 A @ 120 V-1P, 240/208 V-1P)
MUAA06-DIS*	disconnect switch 6 in (40 A @ 208 V-3P, 347 V-1P, 480 V-3P, 600 V-3P)
MUAA08-DIS*	disconnect switch 8 in (40 A)
MUAA10-DIS*	disconnect switch 10 in (100 A)
MUAA12-DIS*	disconnect switch 12 in (100 A)
MUAA6-DNW**	plenum kit 6 in (25 A @ 120 V-1P, 240/208 V-1P)
MUAA06-DNW**	plenum kit 6 in (40 A @ 208 V-3P, 347 V-1P, 480 V-3P, 600 V-3P)
MUAA08-DNW**	plenum kit 8 in (40 A)
MUAA10-DNW**	plenum kit 10 in (100 A)
MUAA12-DNW**	plenum kit 12 in (100 A)

* Includes a disconnect switch, sealed control panel (meet NEMA 12) and wire mesh at air outlet.
* Factory installed
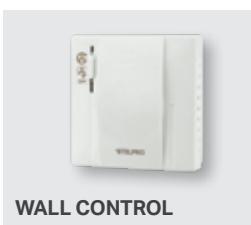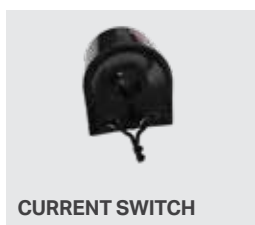
TECHNICAL SPECIFICATIONS

PRODUCT	COLLAR DIAMETER	POWER	VOLTAGE	RECOMMENDED FLOW*	WEIGHT	A		B		C		D	
CODE	IN.	KILOWATTS	VOLTS	CFM	LB	IN.	MM	IN.	MM	IN.	MM	IN.	MM
MUAAXXYYZZ(M)	6*	1.5 | 2.0	120-1P	45 | 60	15	11 7/8	302	18	457	13 1/8	333	8 1/8	206
	6*	1.5 | 2.0 | 3.0	240/208-1P	45 | 60 | 90	15	11 7/8	302	18	457	13 1/8	333	8 1/8	206
	6	1.5 | 2.0 | 3.0	208-3P | 347-1P 480-3P | 600-3P	45 | 60 | 90	27	13 7/8	352	23 1/8	587	18 1/4	464	10	254
	8	4.5 | 5.0 | 6.0	240/208-1P 208-3P | 347-1P 480-3P | 600-3P	120 | 160 | 180	28	13 7/8	352	23 1/8	587	18 1/4	464	10	254
	10	7.0 | 8.0 | 9.0 10.0 | 12.0	240/208-1P 208-3P | 347-1P 480-3P | 600-3P	210 | 240 | 270 300 | 360	42	18 5/8	473	28 1/8	714	21 7/8	556	12 3/4	324
	12	8.0 | 10.0 | 12.0 | 14.0 16.0 | 18.0 | 20.0	240/208-1P 208-3P | 347-1P 480-3P | 600-3P	240 | 300 | 360 420 | 480 | 540 | 600	45	18 5/8	473	28 1/8	714	21 7/8	556	12 3/4	324

XX: Collar diameter
YY: Power in kilowatt (**01** = 1.5 kw et **04** = 4.5 kw)
ZZ: Voltage (**11** = 120V-1P | **83** = 208V-3P | **21** = 240/208V-1P | **31** = 347V-1P | **53** = 480V-3P | **63** = 600V-3P)
**(M):** A motorized feature is available upon request for 6* models.
6*: These models are offered with a neutral terminal (three-wire connection). Refer to the electrical drawing for more details.
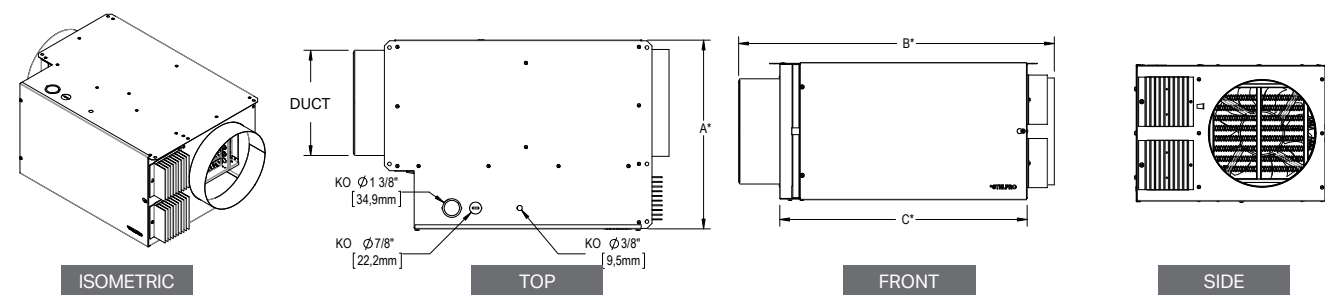* To reach maximum product outlet temperature when outside temperature is -20 °C (-4 °F)

TECHNICAL DRAWINGS

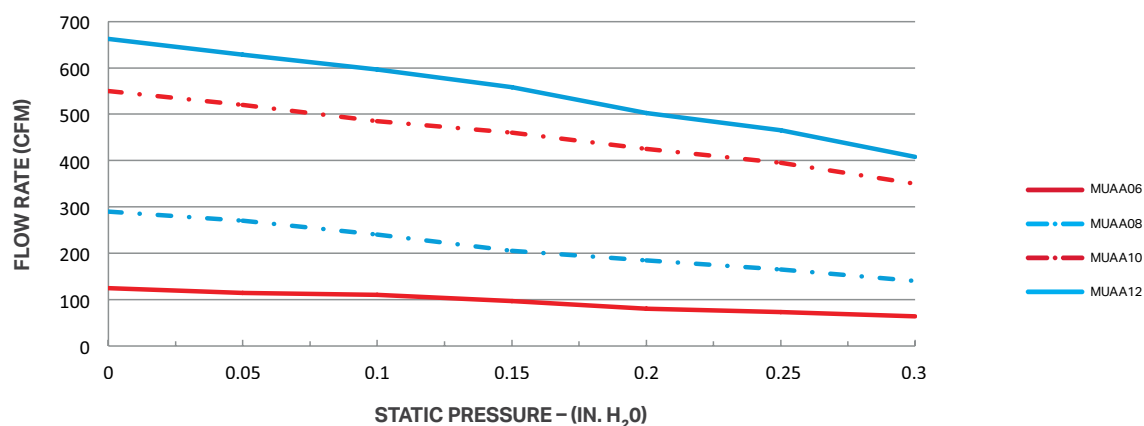**MUAA06 120V-1P AND 240/208V-1P MODELS**

| ISOMETRIC | TOP | FRONT | SIDE |

OTHER MODELS

| ISOMETRIC | TOP | FRONT | SIDE |
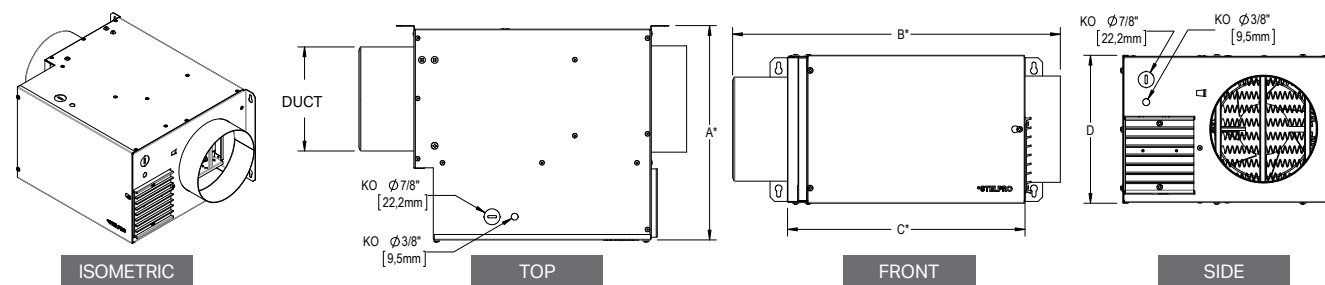
MAXIMUM PERFORMANCE CHART

FLOW RATE (CFM) vs STATIC PRESSURE – (IN. H$_2$0)

- MUAA06
- MUAA08
- MUAA10
- MUAA12

CONTROLS

Stelpro has developed a wide selection of smart controls that range from simple programmable electronic thermostats to remotely connected models. Manufactured and tested in Quebec, they are perfectly adapted to our electric room heating systems that features baseboards, convectors and fan heaters. Easy to install and safe to use, they can yield up to 25% in energy savings. Take control of your comfort!

STE241

ELECTRONIC THERMOSTAT LOW VOLTAGE / 24 V – SINGLE PROGRAMMING

24 V

DESIGNED FOR:

EFFICIENT RELAY CONTROL

The STE241 series low voltage (24 V) electronic thermostat is designed to control electric furnaces and Stelpro "RE" series heating relays. It is compatible with either convection-mode or forced-air heating units as the cycles of this thermostat can be modified accordingly.

**SIMPLE TO USE
AND INSTALL**

**INCREASED SAVINGS
AND COMFORT**
INCOMPARABLE ACCURACY

BACKLIT SCREEN
CAN BE USED AS A NIGHTLIGHT

ELECTRICITY SAVINGS
ENERGY SAVINGS OF 10-15%
DEPENDING ON USE*

COLOUR
• white

FINISH
• molded plastic

VOLTAGE
• 0.5 A @ 24 Vac

CONTROL
• three-wire connection
• compatible with electric furnaces (R, C, W connections) and Stelpro "RE" series heating relays
• adjustable cycles to accomodate both convection and forced-air heating modes. Attention: not compatible with solely inductive loads.
• acts like a programmable thermostat by automatically lowering the temperature once per 24-hour period (Single programming mode)
• frost-free warning
• lock option at a maximum temperature setpoint (Security mode)
• display in Celsius or Fahrenheit

ACCURACY
• accurate ambient temperature control ± 0.5 °C (1 °F)
• temperature sensing with thermistor

TEMPERATURE RANGE
• 3 to 30 °C (37 to 86 °F)

WARRANTY
• three years

* independent study

TECHNICAL SPECIFICATIONS

PRODUCT	VOLTAGE	FREQUENCY	PACKAGING
CODE	VOLTS	HZ	
STE241WB+	24 VAC	50/60	BOX

Dimensions : 3 1/4 in. (83 mm) wide, 4 3/4 in. (121 mm) high and surface 1 in. (25 mm) deep (total depth: 1 3/8 in. (35 mm))

D010
ELECTRONIC THERMOSTAT – LOW VOLTAGE / 24 V

COLOUR
• off-white

VOLTAGE
• 1 A @ 24 Vac

CONTROL
• three-wire connection
• all or nothing @ 24 Vac
• compatible with all RE, RM and R841D1036 model relays
• temperature in degrees Celsius and Fahrenheit

TEMPERATURE RANGE
• 10 to 30 °C (50 to 86 °F)

WARRANTY
• one year

PRODUCT	DESCRIPTION
D010	24 V thermostat

Dimensions : 3.54 in. x 3.54 in. x 1.57 in. (89.9 mm x 89.9 mm x 39.9 mm)

DESIGNED FOR:
SFE/SFECM   SDHX   SDHR

1 YEAR WARRANTY

D070
REMOTE PLENUM THERMOSTAT – LOW VOLTAGE / 24 V

COLOUR
• off-white

VOLTAGE
• 1 A @ 24 Vac

CONTROL
• 2-wire connection
• compatible with CIR-048 used in duct heaters (SDHx series)

TEMPERATURE RANGE
• between -20 and 70 °C (-5 and 160 °F)

WARRANTY
• one year

PRODUCT	DESCRIPTION
D070	remote plenum thermostat

Dimensions : 3.54 in. x 3.54 in. x 1.57 in. (89.9 mm x 89.9 mm x 39.9 mm)

DESIGNED FOR:
SDHX   SDHR

1 YEAR WARRANTY

ET180

ELECTRONIC THERMOSTAT – LOW VOLTAGE / 24 V

COLOUR
• off-white

VOLTAGE
• 1 A @ 24 Vac
• display powered by batteries (2 X AAA – not provided)

CONTROL
• two-wire connection
• all or nothing (NO or NC)
• compatible with all RE, RM and R841 model relays
• temperature in degrees Celsius and Fahrenheit

TEMPERATURE RANGE
• 5 to 35 °C (40 to 95 °F)
• display in Celcius only

WARRANTY
• one year

PRODUCT	DESCRIPTION
ET180	24 V electronic thermostat (Celcius only)

Dimensions : 3.27 in. x 3.27 in. x 1.19 in. (83.1 mm x 83.1 mm x 30.2 mm)

DESIGNED FOR:
SFE/SFECM   SDHX   SDHR

1 YEAR WARRANTY

ET120

ELECTRONIC THERMOSTAT – LOW VOLTAGE / 0-10 V

COLOUR
• off-white

VOLTAGE
• 24 Vac

CONTROL
• output: 0-10 V

TEMPERATURE RANGE
• between 10 and 32 °C (50 and 90 °F)
• display in Celcius only

WARRANTY
• one year

PRODUCT	DESCRIPTION
ET120	0-10 V electronic thermostat (Celcius only)

Dimensions : 3.27 in. x 3.27 in. x 1.19 in. (83.1 mm x 83.1 mm x 30.2 mm)

DESIGNED FOR:
SDHX   SDHR

1 YEAR WARRANTY

OTHER PRODUCTS

SPECIALTY HEATERS

SHU

COMMERCIAL AND
INDUSTRIAL UNIT HEATER

RUH

COMMERCIAL AND
RESIDENTIAL UNIT HEATER

VUH

VERTICAL UNIT HEATER

SDC

COMMERCIAL AIR CURTAIN

FOR MORE INFORMATION REGARDING THESE PRODUCT LINES,
PLEASE VISIT OUR WEBSITE **STELPRO.COM**

Allia Smart home

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amazon alexa   Google Assistant   Compatible with Hilo

*120 V - 240 V line thermostat for electric heating (baseboard, convector and fan heater)

CROSS-REFERENCE TABLE

SERIES	STELPRO	PAGE	THERMOLEC	DETTSON	
SFE	modulating electric furnace with electronic controls	10	---	ADVANTAGE	NORTRON 21D
SFEX	modulating electric furnace with electronic controls	10	---	ADVANTAGE ECM	NORTRON 21ECM
SFECM	modulating electric furnace with electronic controls	10	---	MODULATING	---
SDHI	insertion duct heater (open coil elements)	16	SC	---	---
SDHIT	insertion duct heater (tubular elements)	16	ST	---	---
SDHF	flanged duct heater (open coil elements)	16	FC	---	---
SDHFT	flanged duct heater (tubular elements)	16	FT	---	---
SDHR	round duct heater (open coil elements)	16 and 22	TER / RFC	---	---
SDHRT	round duct heater (tubular elements)	16 and 22	RFT	---	---
SDHR + ET180	round duct heater (open coil elements) + 24 V wall thermostat	16, 22 and 31	ZON (THERMO-ZONE)	---	---
SB	dual energy duct heater	24	T (CHAUFFE-AIR)	---	---
SCV	air handler	14	---	---	---
MUAA	make-up air unit	26	FER (TERMO-X-AIR)	---	---

USEFUL FORMULAS

AIRFLOW	D = V X A
	D = AIRFLOW CFM (M³/S)
	V = VELOCITY FPM (M/S)
	A = AREA, SQ.FT (M²)
TRANSFER OF HEAT	KW = (1.08 X $\triangle$T (°F) X CFM) / 3412
IMPERIAL	Q (BTU/H) = 1.085 X D (CFM) X $\triangle$T (°F)
METRIC	Q (W) = 1.23 X D (L/S) X $\triangle$T (°C)
AMPERAGE	1 PHASE: L (AMPERES) = WATTAGE (W) / VOLTAGE (V)
	3 PHASES: L (AMPERES) = WATTAGE (W) / VOLTAGE (V) = X / 1.73
TEMPERATURE CONVERSION	°F = (°C X 1.8) + 32
	°C = (°F - 32) / 1.8
	$\triangle$T (°F) = $\triangle$T (°C) X 1.8
	$\triangle$T (°C) = $\triangle$T (°F) / 1.8
AIRFLOW CONVERSION	1 CFM = 0.47 L/S
	1 L/S = 2.12 CFM
	1 M³/S = 1000 L/S
POWER CONVERSION	1 KW = 3412 BTU/H
	1 BTU/H = 0.0002928 KW

AMPERAGE CHART

POWER (KW)	VOLTS (PH)												
	120 V (1)	208 V (1)	208 V (3)	240 V (1)	240 V (3)	277 V (1)	347 V (1)	416 V (1)	416 V (3)	480 V (1)	480 V (3)	600 V (1)	600V (3)
0.3	2.50	1.45	0.83	1.25	0.72	1.09	0.87	0.73	0.42	0.63	0.36	0.50	0.29
0.4	3.34	1.92	1.11	1.67	0.97	1.45	1.16	0.97	0.56	0.84	0.49	0.67	0.39
0.5	4.17	2.41	1.39	2.09	1.21	1.81	1.44	1.21	0.70	1.05	0.61	0.84	0.49
0.6	5.00	2.89	1.66	2.50	1.45	2.17	1.73	1.45	0.84	1.25	0.72	1.00	0.58
0.75	6.25	3.61	2.09	3.13	1.81	2.71	2.17	1.81	1.05	1.57	0.91	1.25	0.72
0.8	6.67	3.85	2.23	3.34	1.93	2.89	2.31	1.93	1.12	1.67	0.97	1.34	0.77
1.0	8.34	4.81	2.78	4.17	2.41	3.61	2.89	2.41	1.39	2.09	1.21	1.67	0.97
1.2	10.00	5.77	3.34	5.00	2.89	4.34	3.46	2.89	1.67	2.50	1.45	2.00	1.16
1.25	10.42	6.01	3.47	5.21	3.01	4.52	3.61	3.01	1.74	2.61	1.51	2.09	1.21
1.4	11.67	6.73	3.89	5.84	3.38	5.06	4.04	3.37	1.95	2.92	1.40	2.34	1.35
1.5	12.50	7.22	4.17	6.25	3.61	5.42	4.33	3.61	2.09	3.13	1.81	2.50	1.45
1.6	13.34	7.70	4.45	6.67	3.86	5.78	4.61	3.85	2.23	3.34	1.93	2.67	1.54
1.75	14.59	8.42	4.87	7.30	4.22	6.32	5.05	4.21	2.43	3.65	2.11	2.92	1.69
2.0	16.67	9.62	5.56	8.34	4.82	7.22	5.77	4.81	2.78	4.17	2.41	3.34	1.93
2.25	18.75	10.82	6.25	9.38	5.42	8.13	6.49	5.41	3.13	4.69	2.71	3.75	2.17
2.5	20.84	12.02	6.95	10.42	6.02	9.03	7.21	6.01	3.47	5.21	3.01	4.17	2.41
3.0	25.00	14.43	8.34	12.50	7.23	10.83	8.65	7.22	4.17	6.25	3.61	5.00	2.89
4.0	33.34	19.23	11.12	16.67	9.64	14.44	11.53	9.62	5.56	8.34	4.82	6.67	3.86
4.5	37.50	21.64	12.50	18.75	10.84	16.25	12.97	10.82	6.25	9.38	5.42	7.50	4.34
4.8	40.00	23.08	13.34	20.00	11.56	17.33	13.83	11.54	6.67	10.00	5.78	8.00	4.62
5.0	41.67	24.04	13.90	20.84	12.05	18.05	14.41	12.02	6.95	10.42	6.02	8.34	4.82
6.0	50.00	28.85	16.68	25.00	14.45	21.66	17.30	14.43	8.34	12.50	7.23	10.00	5.78
7.5	62.50	36.06	20.84	31.25	18.06	27.08	21.62	18.03	10.42	15.63	9.03	12.50	7.23
8.0	66.67	38.47	22.23	33.34	19.27	28.88	23.06	19.23	11.12	16.67	9.64	13.34	7.71
9.0	75.00	43.27	25.01	37.50	21.68	32.49	25.94	21.64	12.51	18.75	10.84	15.00	8.67
10.0	83.34	48.08	27.79	41.67	24.09	36.11	28.82	24.04	13.90	20.84	12.05	16.67	9.64
12.0	100.00	57.70	33.25	50.00	28.90	43.33	34.59	28.85	16.68	25.00	14.45	20.00	11.56
14.0	116.67	67.31	38.91	58.33	33.72	50.54	40.35	33.65	19.45	29.17	16.86	23.33	13.49
15.0	125.00	72.12	41.69	62.50	36.13	54.16	43.23	36.06	20.84	31.25	18.06	25.00	14.45
18.0	150.00	86.54	50.02	75.00	43.35	64.99	51.88	43.27	25.01	37.50	21.68	30.00	17.34
20.0	166.67	96.16	55.58	83.34	48.17	72.21	57.64	48.00	27.75	41.67	24.09	33.34	19.27
24.0	200.00	115.39	66.69	100.00	57.80	86.65	69.17	57.70	33.35	50.00	28.90	40.00	23.12
25.0	208.34	120.20	69.48	104.17	60.21	90.26	72.05	60.10	34.74	52.09	30.11	41.67	24.09
30.0	250.00	144.23	83.37	125.00	72.25	108.31	86.46	72.12	41.69	62.50	36.13	50.00	28.90
35.0	291.67	168.27	97.27	145.84	84.30	126.36	100.87	84.14	48.64	72.92	42.15	58.34	33.72
40.0	333.34	192.31	111.16	166.67	96.34	144.41	115.28	96.16	55.58	83.34	48.17	66.67	38.54
45.0	375.00	216.35	125.06	187.50	108.38	162.46	129.69	108.18	62.53	93.75	54.19	75.00	43.35
50.0	416.67	240.39	138.95	208.34	120.43	180.51	144.10	120.20	69.48	104.17	60.21	83.34	48.17
55.0	458.34	264.43	152.85	229.17	132.47	198.56	158.51	132.22	76.43	114.59	66.24	91.67	52.99
60.0	500.00	288.47	166.75	250.00	144.51	216.61	172.91	144.23	83.37	125.00	72.25	100.00	57.80

SINGLE PHASE AMPS

$$\frac{Watts}{Volts} = Amps$$

THREE PHASE AMPS

$$\frac{Watts}{Volts \times 1.73} = Amps$$

OHMS

$$\frac{Volts^2}{Watts} = Ohms \quad OR \quad \frac{Volts \times Volts}{Watts} = Ohms$$

CERTIFICATIONS

Stelpro products are manufactured to meet all safety and performance standards required for CSA certification for sale and installation in Canada.

All products in this catalogue are approved by either CSA, UL, ETL or TÜV certified laboratories, which certify products to applicable safety or performance standards.

Moreover, our products are manufactured to meet at least one of the two required standards for North America: UL for the United States and CSA for Canada. As a result, products are labelled cCSAus, cULus, cETLus or cTÜVus for both Canada and USA, or CSA, cUL or cETL for Canada only.

SAFETY STANDARDS

CERTIFICATIONS

MERCHANDISE RETURNS

Authorization requests for merchandise can be submitted via our new website at www.stelpro/rma or by email. To request a return via our website, please fill out the web form. For email requests, send your request to rma@stelpro.com including the order number and the reason for the return. In either case a return merchandise authorization number (RMA) will be sent to you. The authorization number must be indicated clearly on all packages of returned merchandise. Merchandise must be packaged properly so that it is returned to us in excellent condition. The sender is responsible for all shipping costs.

Charges apply on all returns. A product cannot be returned if it meets one or more of the following criteria: special colour, custom product, assembly with low-demand options, etc.

WARRANTY POLICY

STELPRO WARRANTS ITS PRODUCTS AGAINST DEFECTS IN MATERIAL AND WORKMANSHIP FOR A MINIMUM PERIOD OF ONE YEAR FOLLOWING THE DATE OF PURCHASE.

This warranty does not apply to damages resulting from misuse, abuse, improper installation, field alteration or accidents of any kind. Stelpro will not guarantee nor be held responsible for damages resulting from products that have been modified. Stelpro's responsibility is limited to the repair and/or replacement of parts deemed to be defective. Additional installation and/or transportation costs are not covered under the terms of this warranty. For individual extended warranties, please refer to the product's page.

CONTACT US   **TOLL FREE**   **1-844-STELPRO**   **WEB**   **WWW.STELPRO.COM**

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