

PRODUCT LINE CARD - ALBERTA

APPLIED AIRSIDE & COMMERCIAL

EXCLUSIVE	 <p>www.york.com</p> <ul style="list-style-type: none"> • Packaged commercial rooftop units <ul style="list-style-type: none"> • Self-contained units • DOAS Dedicated Outdoor Air Systems <ul style="list-style-type: none"> • Air handlers custom and modular • Custom coils 		
EXCLUSIVE	 <p>Commercial energy recovery units www.blauberg-na.com</p>	 <p>Dehumidification www.drysolutionsinc.com</p>	 <p>VRF & -40 splits www.us.hitachiircon.com</p>
EXCLUSIVE	 <p>Custom air handling and energy recovery equipment designed for specific application www.innoventair.com</p>	 <p>AC mini-splits (builders series) www.master.ca</p>	 <p>Custom air handlers www.southampton-industrial.com</p>
EXCLUSIVE	 <p>Highly configurable dedicated outdoor air solutions (DOAS units) www.valentair.com</p>		
 <p>Gas fired makeup air units www.captiveaire.com</p>	 <p>Free standing coils, fluid coolers & condensers www.directcoil.com</p>	 <p>PTAC, TTW, Vert-I-Pak www.friedrich.com</p>	
 <p>Air cooled condensing units, fluid coolers, condensing units, free standing coils www.k-rp.com</p>	 <p>Heat pumps without outdoor condenser www.olimpiasplesidusa.com</p>	 <p>Air cooled condensing units, fluid coolers, condensing units, free standing coils www.refplus.com</p>	
 <p>Ultraviolet filtration www.sanuvon.com</p>	 <p>Arena dehumidifiers www.thermoplus.com</p>		

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EXCLUSIVE	 <p>SIGMA CORPORATION</p> <p>Vertical stacked fan coils</p> <p>www.sigmaproducts.com</p>		 <p>STEFFES CUSTOMER FOCUSED. SOLUTION DRIVEN. FIELD PROVEN.</p> <p>Off-Peak ETS heating systems</p> <p>www.steffes.com</p>	 <p>TRANSFAB ENERGIE</p> <p>Industrial & commercial boilers, storage tanks, and steam accessories</p> <p>www.transfab.com</p>
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	 <p>CALEFACTIO</p> <p>Hydronic accessories</p> <p>www.calefactio.com</p>	 <p>CALEFFI Hydronic Solutions</p> <p>Hydronic specialties, air/dirt separators, low loss headers hydraulic separators</p> <p>www.caleffi.com</p>	 <p>Centrotherm solutions beyond</p> <p>Polypropylene flue-gas venting systems</p> <p>www.centrotherm.us.com</p>	 <p>CEPTEK TECHNOLOGIES</p> <p>Modular/custom water to water hp for heating/cooling and DHW applications</p> <p>www.ceptek.ca</p>
	<p>ExpressRadiant</p> <p>Infrared radiant heaters</p> <p>www.expressradiant.ca</p>	 <p>GRUNDFOS</p> <p>Circulating pumps</p> <p>www.grundfos.ca</p>	 <p>HAYWARD</p> <p>Pool heaters</p> <p>www.hayward-pool.ca</p>	 <p>NTI</p> <p>Boilers</p> <p>www.ntiboilers.com</p>
	 <p>PACO PUMPS GRUNDFOS</p> <p>Commercial pumps</p> <p>www.grundfos.com</p>	 <p>REZNOR</p> <p>Unit heaters</p> <p>www.reznorhvac.com</p>	 <p>Schwank INNOVATIVE HEATING SOLUTIONS</p> <p>Infrared radiant heaters and air curtains</p> <p>schwankgroup.com</p>	 <p>SIGMA CORPORATION</p> <p>Cabinet heaters, architectural enclosures, convectors, radiant panels, etc.</p> <p>www.sigmaproducts.com</p>
	 <p>SPACE-RAY INFRARED GAS HEATERS</p> <p>Infrared radiant gas heating solutions</p> <p>www.spaceray.com</p>	 <p>THERMO 2000</p> <p>Electric boilers, storage tanks</p> <p>www.thermo2000.com</p>		

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	 <p>High induction diffusers and air curtains www.nadklima.com</p>	 <p>Commercial fans www.tcf.com</p>		
	 <p>Concentric grilles and diffusers www.airconceptsinc.com</p>	 <p>Commercial grilles and diffusers www.airvector-hvac.com</p>	 <p>Bathroom Fans www.broan.ca</p>	 <p>Commercial Fans www.canarm.com</p>
 <p>Large blade fans for HVLS commercial applications, industrial, and warehouses www.enviranorth.com</p>	 <p>Flexible fabric air ducts in NFPA-25/50 for institutional, commercial and food applications www.fabricair.com</p>	 <p>Bathroom fans www.business.panasonic.ca</p>	 <p>clean air at work Extraction arms for welding and cutting fume removal from vehicles, garages and fire stations www.plymovent.com</p>	
 <p>Fans and ventilation accessories for light commercial and residential applications www.reversomatic.com</p>	 <p>Commercial fans www.solerpalaucanada.com</p>	 <p>Ventilation accessories www.tjernlund.com</p>	 <p>Louvers and dampers www.unitedenergetech.com</p>	
 <p>Louvers, control and fire dampers www.ventexinc.com</p>				

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EXCLUSIVE	 <p>Air conditioners and heat pumps for central systems, gas and electric furnaces www.york.com</p>		 <p>HEATING AND AIR CONDITIONING</p> <p>Air conditioners and heat pumps for central systems, gas and electric furnaces www.colemanac.com</p>	
	EXCLUSIVE	 <p>Ductless units www.master.ca</p>	 <p>Window units, TTW, PTAC, Vertipak & VRP www.friedrich.com</p>	 <p>Ductless units, air exchangers ERV/HRV www.moovair.com</p>
	 <p>Wall brackets & floor stands www.alubase.ca</p>	  <p>Air handlers and hydronic DX coils www.amtsCanada.com</p>	 <p>Humidifiers www.aprilaire.com</p>	 <p>Replacement Filters www.filtrationgroupiaq.com/en-ca</p>
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	 <p>Ductless units & mini VRF, complete line of VRF www.fujitsugeneral.com</p>	 <p>Humidifiers, dehumidifiers and filters www.generalfilters.com</p>	 <p>Generators www.generac.com</p>	 <p>Thermostats www.on.jci.com/33YBg2s</p>
	 <p>Horizontal side discharge condensers www.marsdelivers.com/products/1001/Comfort-Aire</p>	 <p>Thermostats, humidifiers, filters www.customer.resideo.com/en-US/Pages/default.aspx</p>	 <p>Ultraviolet air treatment systems, UV air purifiers www.sanuvox.com</p>	 <p>OEM York parts www.source1parts.com</p>
	 <p>Electric Furnaces and Electric Duct Heaters www.stelpro.com</p>	 <p>Pool heat pumps www.thermeau.com</p>	 <p>Air exchangers, ERV/HRV www.vanee.ca</p>	

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 <p>Desuperheaters www.doucetteindustries.com</p>	 <p>Chillers www.drakechillers.com</p>	 <p>Formerly Ancienement </p> <p>Facility controls and electronics www.copeland.com</p>	 <p>Brazed plate heat exchangers, chillers, condensers, radiant floors gea-phe.com</p>
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 <p>Controls, valves www.ke2therm.com</p>	 <p>Air cooled condensers, fluid coolers, evaporators, condensing units www.k-rp.com</p>	 <p>Desuperheaters, valves, accessories www.muellerindustries.com</p>	 <p>ACR/WROT copper fittings, ball valves, filter driers, ASME & TSSA rating approved www.ndlinc.com</p>
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 <p>Valves www.parker.com</p>	 <p>a xylem brand Shell & tube heat exchangers, tanks, oil separators, suction accumulators standard-xchange.com</p>	 <p>A DOVER COMPANY Brazed plate heat exchangers www.swep.net</p>	 <p>Compressors, condensing units www.tecumseh.com</p>
 <p>Arena dehumidifiers www.thermoplus.com</p>	 <p>Oil separators www.temprite.com</p>	 <p>Receivers, oil separators, suction accumulators, shell & tube heat exchangers www.westermeyerind.com</p>	 <p>Refrigerant recovery, vacuum pumps, hoses and refrigeration gauges yellowjacket.com</p>

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Motor Types

Shaded-Pole:

Used where low-cost and low power outputs are required. They have low-starting torque and are inefficient. They are used to drive blowers, bathroom ventilators, range hoods, etc. Suitable for use with solid state type speed controls.

Permanent-Split Capacitor: (PSC)

Used in a variety of direct-drive, air-moving applications where fairly low starting torque and higher efficiencies are required such as outdoor condenser fans. Generally not suitable for belt drive applications. Suitable for use with solid state type speed controls.

Split Phase:

High-starting torque motors suitable for belt-drive applications such as furnace blowers. They are more efficient than Shaded-Pole motors but not as efficient as Permanent-Split Capacitor motors. Not suitable for use with any type of electrical speed control.

Capacitor Start: (Induction & Capacitor Run)

Highest starting torque motors. Suitable for use in various hard to start applications such as compressors, pumps and many belted applications. Not suitable for use with any type of electrical speed control.

ECM: (Electronically Commutated Motor)

Ultra high efficient, electronically controlled motors. This motor design allows for exacting speed control and maintains high torque at start and over a broad speed range. Can be used in many consumer and commercial applications in place of conventional type motors such as the Shaded-Pole and PSC designs.

Three Phase:

High efficient motor design. They are typically used in industrial or commercial applications where three-phase power is available. Some three-phase motors are suitable for use with Variable Frequency Drives (VFD's).

Horsepower Conversion Chart

Use to convert decimal horsepower to commonly available fractional horsepower motors.
(For watt conversion, use the formula 745.7 watts = 1 HP)

Decimal Horsepower																	
0.010	0.014	0.017	0.020	0.025	0.033	0.040	0.050	0.067	0.083	0.100	0.125	0.167	0.250	0.333	0.500	0.750	1.000
Fractional Horsepower																	
1/100	1/70	1/60	1/50	1/40	1/30	1/25	1/20	1/15	1/12	1/10	1/8	1/6	1/4	1/3	1/2	3/4	1

Belt Length Calculation

When belt length is unknown, try using the following formula:

$$PL = 2C + 1.57(D+d) + \frac{(D-d)^2}{4C}$$

PL = Belt pitch length

C = Centre distance (between pulleys)

D = Pitch diameter of large pulley

d = Pitch diameter of small pulley

Using the belt pitch length obtained above, choose a belt with the closest nominal pitch length or call your nearest Soper's branch for your belt requirements.

Belt Equivalents

'A' & 'B' = '4L' & '5L'

A belt - 4L (add 2 sizes) ie - A18 (20" OD) = 4L200, A78 (80" OD) = 4L800

B belt - 5L (add 3 sizes) ie - B27 (30" OD) = 5L 300, B77 (80" OD) = 5L800

Determining Belted Fan & Blower RPM

$$\frac{\text{Drive Pulley}}{\text{Driven Pulley}} \times \frac{(X) \text{ Fan or Blower RPM}}{\text{Motor RPM}}$$

Please note: Use pulley datum diameter with appropriate belt type (A,B,4L or 5L) to provide more accurate results.

SOPER'S SUPPLY - MASTER GROUP LOCATIONS - WESTERN CANADA

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1224 - 26 Ave SE, Calgary AB T2G 5S2

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