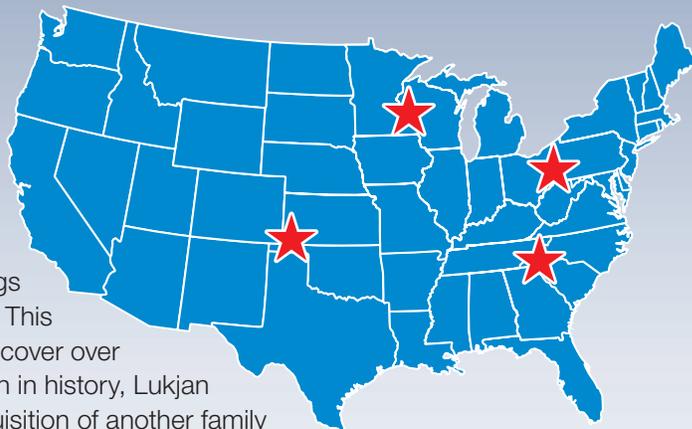# Lukjan
METAL PRODUCTS

GENERAL INFORMATION

ABOUT LUKJAN

Lukjan Metal Products has been manufacturing high quality sheet metal pipe, duct and fittings to the Wholesale HVAC Industry since 1964. Lukjan started in a small garage in Conneaut, Ohio and quickly expanded into its now current flagship 190,000 square foot plant approximately 4 miles away in the same town. Seeing expanding opportunity in the southern market, Lukjan purchased a 205,000 square foot building in Kings Mountain, N.C. and began production operations, August 2006. This greenfield operation expanded Lukjan's service footprint to now cover over twenty states. Having weathered the worst housing market crash in history, Lukjan continued its growth plans in the Midwest markets with the acquisition of another family owned business, Midwest Ducts in March 2016. This facility added another 90,000 square feet and further extended Lukjan's reach to over 28 states. Continued growth in the economy and housing market strength presented another opportunity in the Great Plains market with the purchase of a fourth facility in Sidney, Nebraska in June 2017. Another greenfield operation, Lukjan Great Plains adds another 200,000 square feet of manufacturing capacity and provides Lukjan with access to the HVAC Wholesaler market in over 37 states and Canada.

Even with its rapid growth, Lukjan remains a family owned and operated business following three simple principles established by its founders, Anatol and Natalia Lukjanczuk: ***Provide the best quality product at competitive prices backed by exceptional customer service***. These same principles live on today in all aspects of our business under the leadership of Dan Lukjanczuk and Elena Lukjanczuk-Kelly.

METAL SHIPPING RACKS

Lukjan utilizes both 4' and 8' metal shipping racks for high volume duct and pipe purchases. A summary of our rack policy is as follows:

1. Racks are provided as a service to our wholesalers/distributors for the handling and storage of **Lukjan product only**.
2. Racks NOT returned within a reasonable timeframe will be invoiced to the wholesaler/distributor of record.
3. Racks sent to customer sites are the responsibility of the wholesaler/distributor of record and will be billed at time of shipping.
4. Racks are currently valued at **$275.00** (4') and **$475.00** (8') and may change based on prevailing replacement costs.

Customers are asked to contact Lukjan customer service to arrange pick-up when racks are cleared. Customers are asked to neatly stack cleared racks and provide safe and easy access for Lukjan drivers.

DAMAGED GOODS

Product **received** in damaged conditioned can be returned for full credit. Customers have up to 3 days from the product delivery date to contact customer service and arrange for an RMA (Return Memo Authorization) and schedule pick-up of defective material. Credit will be issued upon inventory of returned goods.

RETURNS AND RESTOCKING

Lukjan will, **at its discretion**, accept returns for credit provided the product is in re-salable condition and is a standard part. Custom made metal products will not be accepted. All returns are subject to a minimum **25%** restocking and handling fee. Some restock charges may be higher depending on the specific product volume.

ELECTRONIC DATA INTERCHANGE (EDI)

Lukjan utilizes EDI for ordering, acknowledgement, invoicing and ASN. Any customer interested in utilizing EDI can contact our customer service team or their Lukjan sales representative.

ELECTRONIC INFORMATION

Lukjan asks, as a business courtesy, that any electronic data provided by Lukjan to its customers (pricing, product specifications, etc.) be managed in a confidential manner.

DISCOUNTS/TERMS

Please inquire regarding discount programs for early payments.

PACKING SLIP/INVOICE

Items on Lukjan Packing Slips and Invoices match the sequential order of the customer purchase order and if requested, can include the customer part number providing easy product receiving and billing reconciliation

PRODUCT IDENTIFICATION

Lukjan provides box labeling that includes a product bar code, product description, customer name/address, customer PO#, order date, customer part number and PO sequence number.

PRODUCT CODES/PRICING

All items in the Lukjan Catalog are identified with a Lukjan Product Code. The Product Code is defined for each item to provide an accurate means to price and order product. A complete catalog price list of over 15,000 items is available on-line at **lukjan.com**

Example:

RP05xxyyzzz RP050630060 6" 30GA 5' Round Pipe, Unboxed

Where: RP05 = Round Pipe, Unboxed
xx = 06 Pipe Diameter
yy = 30 Gauge
zzz = 060 Length

LUKJAN RESERVES THE RIGHT TO MAKE ADJUSTMENTS AND/OR CHANGES TO POLICIES, PRICES AND PRODUCT AVAILABILITY AT ITS DISCRETION WITHOUT NOTICE.
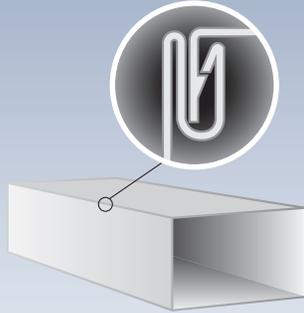
TABLE OF CONTENTS

DUCT AND DUCT FITTINGS

Fittings list DRIVE dimension first, SLIP second while Duct lists SLIP first and DRIVE second.
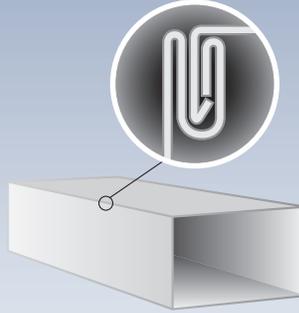
Slip and Drive w/Cross-break
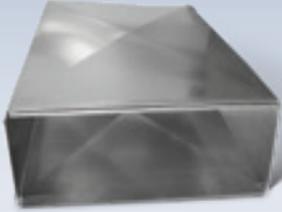
THOR lock

Button Lock

E-Lock

BUTTONLOCK is our standard duct offering providing a strong, tight seam connection.

ELOCK offers the same strength and tight seal but eliminates the raw edge along the longitudinal male seam providing a smooth edge reducing potential worksite or warehouse injuries. The ELOCK also adds rigidity to the duct surface.

RACK QUANTITIES

	4 FT. & 5 FT. DUCT			8 FT.
	X 8	X 10	X 12	X 8
8	150			180
10	150	90		150
12	150	120	120	150
14	160	120	120	160
16	120	90	90	120
18	120	80	80	120
20	100	80	80	100
22	100	80	80	100
24	100	80	80	100
25	100	80		100
26	100			100
28	80			80
30	80			80
32	80			80

RECTANGULAR DUCT
Seam Lock Options:
Buttonlock, E-Lock and Slide Lock
Joint Connections: S&D or THOR
DT01xxyyzza **26GA**
DT02xxyyzza **28GA**
DT03xxyyzza **24GA**
xx = 08-30 (Slip dimension)
yy = 08, 10, 12 (Drive dimension)
zz = 36, 48, 60, 96 (Length)
a = Blank: Buttonlock, E: Elock, T: THOR
Call for special sizes and prices.
Standard is Button Lock with S&D

DRIVE CLEATS
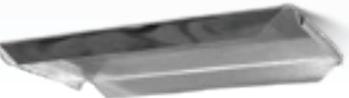**DX10**xxxyy
xxx = 06-120 (Length)
yy = 28, 26, 24 (GA)

"S" CLEATS
DX12xxxyy
xxx = 06-120 (Length)
yy = 28, 26, 24 (GA)

STANDING "S" CLEATS
DX13xyyyzz
x= 1 (1" Hem) or 5 (5/8" Hem)
yyy = 060, 096, 120 (Length)
zz = 24 (GA, Blank = 26)
Example: DX135120 = 5/8" x120" 26GA

SQUARE THROAT

ROUND THROAT

VERTICAL (SHORTWAY) ELBOW
DX21yyxx
yy = 08, 10, 12, 14, 16, 20 (Drive dimension)
xx = 08-32 (Slip dimension)

VERTICAL (SHORTWAY) ANGLE
DX23yyxx
yy = 08, 10, 12, 14 (Drive dimension)
xx = 08-32 (Slip dimension)

Lukjan can install Turning Vanes on any duct fitting. Call for more info.

SQUARE THROAT

ROUND THROAT

HORIZONTAL (LONGWAY) ELBOW
DX25yyxx
yy = 08,10,12,14, (Drive dimension)
xx = 08-32 (Slip dimension)

HORIZONTAL (LONGWAY) ANGLE
DX27yyxx
yy = 08,10,12,14 (Drive dimension)
xx = 08-32 (Slip dimension)

END CAPS, 2" EXT.
DX45yyxx **(512)**
Used with THOR lock duct
yy = 04-12 (Drive dimension)
xx = 08-32 (Slip dimension)

END CAPS
DX44yyxx
yy = 04-18 (Drive dimension)
xx = 08-30 (Slip dimension)

OFFSET START COLLAR
DX31yyxx
yy = 08,10,12 (Drive dimension, duct side)
xx = 08-32 (Slip dimension)
Standard offset 3"

RECTANGULAR START COLLAR
DX33yyxx
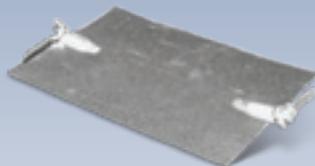yy = 04,06,08,10,12,14,15,18 (Drive dimension)
xx = 08-32 (Slip dimension)

FLEXIBLE DUCT CONNECTOR

DX36yyxx

yy = 08-20 (Drive dimension)
xx = 08-24 (Slip dimension)
Isolates furnace vibration from duct system.
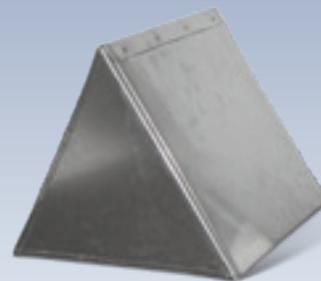
DUCT REDUCERS

DX41yyxxbbaa

yy = 06-18 (Drive dimension, larger end)
xx = 08-30 (Slip dimension, larger end)
bb = 06-18 (Drive dimension, smaller)
aa = 08-28 (Slip dimension, smaller)
Options: Standard is Flat one side
C = Centerline reducer

VERT ELBOW, RED. JUMPER BOOT

DX22yyxxbbaa

yy = 08-10 (Drive)
xx = 10-16 (Slip)
bb = 10-16 (Drive)
aa = 10-16 (Slip)

DUCT REVERSE ELBOW

DX24yyxxbbaa

yy = 08 (Drive)
xx = 10-24 (Slip)
bb = 08 (Drive)
aa = 10-24 (Slip)

RECTANGULAR DUCT DAMPERS

DX50yyxx

yy = 8, 10, 12 (Drive dimension)
xx = 08-50 (Slip dimension)

TRANSITION

DX82yyxx

xx = 08-38 (Slip dimension)
yy = 8, 10, 12 (Drive dimension)
Add "D" for Transition with Damper

Clip version

DUCT ADAPTER

DX80aayyz

aa =02, 04, 06, 08, 10, 12 (Duct reduction)
yy = 8, 10, 12 (Drive dimension)
z = C designates clips on long edge. Blank is raw edge
Example: 24x8 to 18x8
Need 6" reduction on 8" Drive = DX800608

SLEEVE EXTENSION

DX37xxyyzz

xx = Width (02-20)
yy = Depth (06-24)
zz = Sleeve Length (in)

DISTRIBUTION BOX

DX48xxyyzz **Non-insulated**
DX48xxyyzz**R**a **Insulated**

xx = 12-20 (Side 1)
yy = 12-20 (Side 2)
Side 1 = Side 2 most common
zz = 12, 24, 36, 48 (Box Length)
a : 4 = 1", 6 = 1.5", 8 = 2" (Insulation value)
ex: DX48161636R8 16x16-36" w/2" Insulation

TRIANGLE BOX

DX47xxyyzzaa

xx = 10-24 (Edge 1 dimension)
yy = 10-24 (Edge 2 dimension)
zz = 10-24 (Edge 3 dimension)
aa = 06-24 (Height)
Used in Flexduct distribution systems

REDUCERETTE

DX79aayy

aa =02, 04, 06, 08, 10, 12 (Duct reduction)
yy = 8, 10, 12 (Drive dimension)
Example: 24x8 to 18x8
Need 6" reduction on 8" Drive = DX790608

DUCT DAMPER SLEEVE

DX51xxyyzz (Residential)
DX51CExxyyzz (Commercial; Pictured)

xx = 06-14 (Drive)
yy = 08-24 (Slip)
zz = Drive + 2" (Length)
Standard 24GA

ROUND PIPE

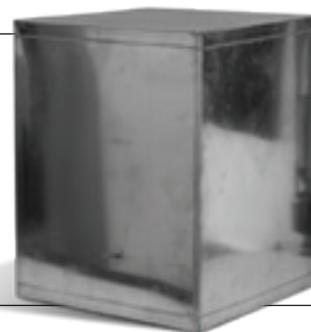| RACK QUANTITIES		
5 FT. ROUND PIPE		
DIAM.	**UNBOXED**	**BOXED**
3	550	
4	630	480
5	480	350
6	350	250
7	240	160
8	200	150
9	160	
10	150	
12	120	
14	80	

All sizes 10/Bundle except 3" at 5/Bundle.
4"– 8" Sizes Boxed or Unboxed.
All Sizes over 8" Unboxed.
Beaded Pipe Available.

Sealed pipe saves your customers time and money by eliminating the need to seal the longitudinal lock seam. Installation time, expensive tapes and mastic supplies are reduced providing a clean, high quality look.
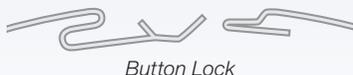
UL Classified Polymer-based Sealant
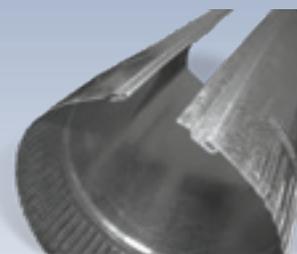
SEALED ROUND PIPE
RP07xxyyzzz **(All sizes unboxed)**
xx = 04-16 (Diameter)
yy = 26, 24 (GA)
zz = 060 (Length only)

GALVANIZED ROUND PIPE
RP01xxyyzzz
RP05xxyyzzz (Unboxed 4"- 8")
xx = 03-32 (Diameter)
yy = 30, 28, 26, 24, 22 (GA)
zz = 012, 024, 036, 048, 060, 120 (Length)
Options: Buttonlock and Snaplock

Button Lock

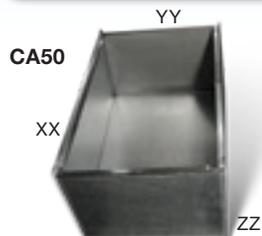*Sealed Button Lock*

Snap Lock

Sealed Snap Lock

ASSEMBLED ROUND PIPE
RP05xxyyzzzA
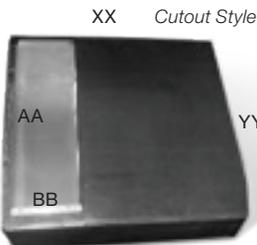xx = 03-04 (Diameter)
yy = 30, 28, 26 (Gauge)
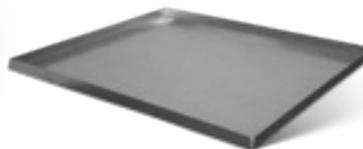zzz = 120 (Length In.)
A = Assembled
Hammerlock and Crimped

FURNACE/AIR HANDLER FITTINGS

CA50

YY
XX
ZZ

CA50F w/Swing Door

CA50ST w/Tray

FURNACE BOX
CA50xxyyzz
CA50Fxxyyzza w/Filter Slot
CA50STxxyyzza w/Sliding Filter Tray
xx = depth
yy = width
zz = height
a = filter width
(Blank = 1", 2 = 2", 3 = 3", etc.)

Door Options:
H = Hinged Door
M = Magnetic Door (1" filter only)
S = Swing Door

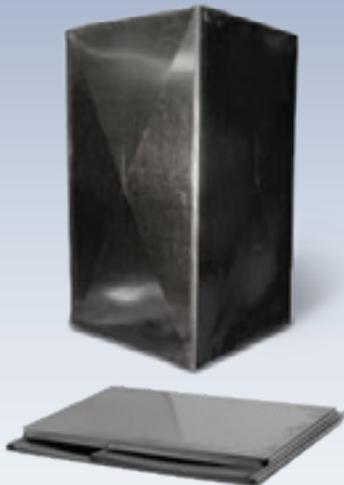XX *Cutout Style*
AA
YY
BB

w/5" Filter Tray

FURNACE SUPPORT BOX
CA40xxyy
Solid Style 12" High
CA40xxyyaabbz
Cutout Style 10" High
xx = 18-48 (Overall Box Length)
yy = 17-30 (Overall Box Width)
aa =24, 25 (Cutout Length)
bb = 08, 10, 12 (Cutout Width)
Example: CA40362824105
Support Box 36x28 w24x10 cutout and 5" Filter Slot

FURNACE STARTER BASE
CA42xxyy
CA43xxyy **(RUDD)**
xx = 13-22 (Width)
yy = 20-30 (Length)
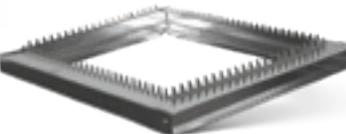
FILTER FRAMES (1" FILTERS)
CA20xxyyz
xx = 14, 16, 20, 25 (Filter Height)
yy = 20, 24, 25, 30 (Filter Length)
z = A, B, C, D (Style)
A (Teeth Flange one side, Plain Flng other)
B (Teeth Flng one side, Flat other)
C (Plain Flng one side, Flat other) Standard
D (Plain Flange both sides)
Options: SD = Snap Door

FILTER FRAME, ECONO
CA72xxyyz
xx = 14, 16, 20, 25 (Filter Height)
yy = 20, 24, 25, 30 (Filter Length)
z = 1, 3 (Filter Width)

FILTER FRAME BOX
CA74xxyyza
xx = 14-25 (Filter Height)
yy = 20-25 (Filter Length)
z = 3, 5, 6, 7 (Frame Box Width must be 2" larger than filter slot)
a = Filter Slot Width (Blank is 1") 3, 4 or 5
Hemmed both faces standard.
Options: S = Swing Door
M = Magnetic cover (1" Filter only)
EX: CA74142553 - Filter Box 14x25-5" with 3" Filter Slot

CUSTOM SIZED PLENUMS

PL10xxyyzz
xx = 10-28 (Plenum Width)
yy = 12-30 (Plenum Depth)
zz = 12-60 (Plenum Height)
Standard 4 sides, 1 cap, x-broke
Options: Double Top, Two Piece Designs, Flange In/Out, Hem,
Fractional sizes end with A, B, etc.
Example: 16.5x20.5x48 = PL10162048A

Insulated Plenums available.
See page 27

UNIVERSAL FILTER FRAME BOX

Fits filter sizes 1" - 5" w/adj filter rails
CA74xxyy**U**
xx = 14-25 (Filter Height)
yy = 20-25 (Filter Length)
Frame Box Width is fixed at 7"
Swing Door standard

SQUARE-ROUND BOOT

RB55xxyyzz
xx = 03-21 (Width)
yy = 06-30 (Depth)
zz = 04-24 (Round Takeoff Diameter)
Options: Flange Out, RAW, Offset Design

PLENUM RAIL

PX16xxyyy
xx = 10-28 (Plenum Width)
yyy = 046 or 056 (Plenum Length)

UNIVERSAL PLENUM SIDE

PX14xxzz
xx = 10-28 (Plenum Width)
zz = 12-60 (Plenum Height)

USER MANUAL HOLDER

CA9001
9.75" H x 10" W

SQ-RD MOBILE HOME BOX

Same as SQ-RD BOOT but with filter ledge on inside
RB55xxyyzz**M**
xx = 03-21 (Width)
yy = 06-30 (Depth)
zz = 04-24 (Round Takeoff Diameter)
Options: Flange Out, RAW

Mobile Home Kits (MK) available and include filter, grill and butterfly damper
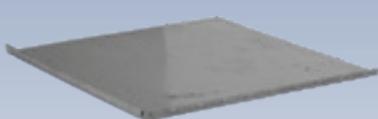
PLENUM CORNERS

PX20xxx
xx = 36, 60, 120 (Length)
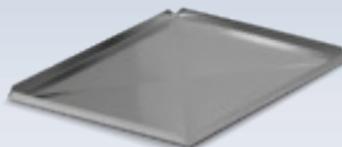
CUSTOM PLENUM TOPS

PX18xxyy
xx = 10-28 (Plenum Width)
yy = 12-36 (Plenum Length)

COLD AIR FRAMES

CA16xxyyzz
xx = 10-40 (Opening width)
yy = 04-24 (Opening height)
zz = Overall frame width (16" or 24")
Standard is 4" + opening width

PLENUM TRANSITION

PL17xxyyaabbzz
xx = Smaller opening depth
yy = Smaller opening width
aa = Larger opening depth
bb = Larger opening width
zz = Height
Ex: PL171320133805 13x20-13x38 - 5" H

METAL DRAIN PANS

CA30xxyyzza
xx = 20-38 (Width)
yy = 24-80 (Length)
zz = 26, 24 (GA)
a = Blank (Standard w/ Drain Plug on long side)
a = S (Drain Plug on short side)
a = N (No Drain Plug)
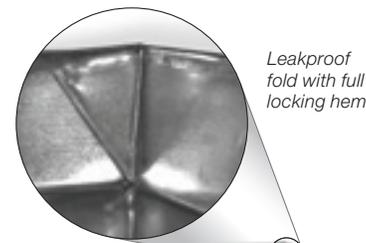
Leakproof fold with full locking hem

SOLID COIL BOX

PX22xxyyzz
xx = 16-24 (Box Width)
yy = 20-28 (Box Depth)
zz = 15-22 (Box Height)

UNIVERSAL PLENUM TOP

PX17xxyy
Flat plain sheet metal no flanges or bends
1616, 1620, 1624, 2020, 2024, 2424, 2430

ADJUSTABLE PLENUM KIT

PL13xxyyzz
(4) Universal sides (PX14) and
(1) Univ. Top (PX17)
xxyy= 2020, 2024, 2525, 2626
zz = 36 and 48 Lengths

COLD AIR RETURN KITS

CA10xxyyaabb
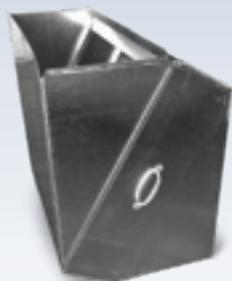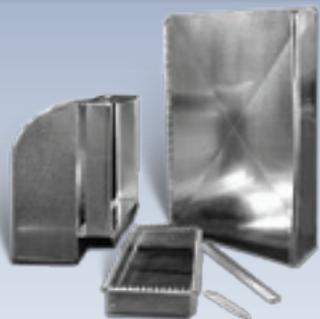xx = Furnace cutout larger
yy = Furnace cutout smaller
aa = CA Drop Slip dimension
bb = CA Drop Drive dimension
KITS INCLUDE:
(1) Start Collar, (2) jts 32" Duct, (1) CA
Boot, (6) S Cleats, (6) Drive Cleats

CA BOOT, SLANT FILTER

CA11aabbxxyy**5**
CA11Kaabbxxyy**5 (KIT)**
aa = 25 (Drop slip)
bb = 10, 12, 15 (Drop drive)
xx = 25 (Furnace slip)
yy= 20 (Furnace drive)
Ex: CA11251025205 25x10-25x20
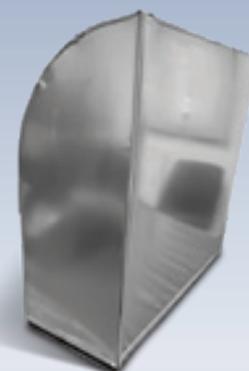w/5" Filter Slot

COLD AIR RETURN BOOTS

CA12aabbxxyy
xx = Furnace cutout larger
yy = Furnace cutout smaller
aa = CA Drop Slip dimension
bb = CA Drop Drive dimension

CA BOOT, NO THROAT

CA13aabbxxyy
CA13Kaabbxxyy **(KIT)**
aa = 24 (Drop slip)
bb= 08, 10, 12 (Drop drive)
xx = 24 (Furnace opening)
yy= 16, 20 (Furnace opening)
Ex: CA1324082416 24x8 -24x16

CA BOOT, FLAT

CA14xxyy
CA14Kxxyy **(KIT)**
aa = 20, 24, 25 (Drop slip)
bb = 08, 10, 12 (Drop drive)
Ex: CA142510 25x10 Drop, No furnace opening

Return Air Boot Options:
Side Load Filter Slot is Standard or Top Load (T)
ROUND BACK ONLY

F = Flange w/adhesive to assist installation
M = Magnetic filter slot cover (1" only)
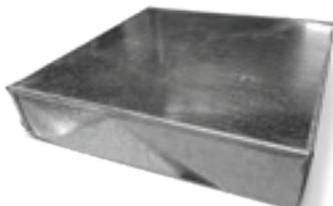S = Swing Door
SD = Snap Door

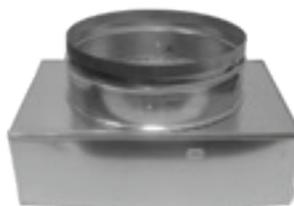# SUPPLY/RETURN AIR PRODUCTS

SUPPLY/RETURN AIR PAN, NO COLLAR

CA58xxyyzz
xx = 10-24 (Wdith)
yy = 10-24 (Length)
zz = 04-16 (Height, Standard = 4")

SUPPLY/RETURN AIR BOX – NO COLLAR

CA59xxyyzz **No Collar**
xx = 10-24 (Wdith)
yy = 10-24 (Length)
zz = (Height, Standard = 6")
Specify R4, R6, R8 or with Flange (F)

RETURN AIR BOX W/COLLAR

CA60xxyyzz **w/Collar**
xx = 06-24 (Wdith)
yy = 06-24 (Length)
zz = 06-20 (Collar diameter)
aa = Height (Standard = 6")

STACKHEAD, RETURN AIR

SX76xxyyaabb
xx = 14, 16, 20, 25 (Wall register width)
yy = 20, 24, 25 (Wall register height)
aa = 14, 16, 20, 25 (Floor opening width)
bb = 10, 12 (Floor opening length)
xx = aa typical, Standard RAW edges, specify flange on floor opening

COLD AIR GROUND/COLD AIR STRIPS
CA19xx (feet) **/ CA62**yy (inches)
xx = 05, 08, 10   yy = 16, 30, 60, 96
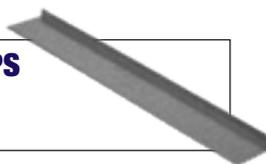
JOIST PANNING SHEETS

PS40xxyyy
xx = 16-35 (Width)
yyy = 030-048 (Length)
Standard 30GA, Options: U = Unboxed

JOIST HEADER PLATE

PX05xxyyzz
xx = 16, 36 (Width)
yy = 10, 12 (Length)
zz = 30, 26 (GA)

JOIST BLOCKOFF

PX06xxyyzz
xx = 16, 36 (Width)
yy = 10, 14 (Length)
zz = 30, 28, 26 (GA)

JOIST HEAD

PX07xxyyzz
xx = 16, 36 (Width)
yy = 10, 14 (Length)
zz = 30, 28, 26 (GA)

REGISTER BOOTS

All Register boots can be made with 1" Flange.

REGISTER BOOT, END

RB10xyyz

x = 2-12 (Register height)
yy = 06-14 (Register width)
z = 4-10 (Round opening)
Specify L = Left, R= Right

REGISTER BOOT, STRAIGHT

RB20xyyz

x = 2-12 (Register height)
yy = 06-14 (Register width)
z = 4-10 (Round opening)
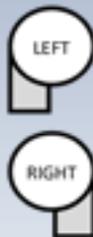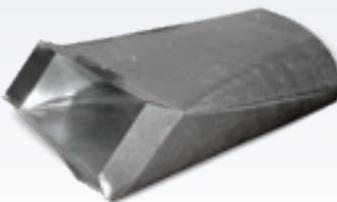
REGISTER BOOT, ELBOW

RB30xyyz

x = 2-12 (Register height)
yy = 06-14 (Register width)
z = 4-10 (Round opening)

REGISTER BOOT, ANGLE

RB40xyyz

x = 2 - 8 (Register height)
yy = 10-14 (Register width)
z = 4-10 (Round opening)

REGISTER BOOT, POOR BOY

RB20xyy**PB**

x = 2-6 (Register height)
yy = 08-14 (Register width)

BASEMENT BOOT

RB45xyyz

x = 4-8 (Register height)
yy = 10-14 (Register width)
z = 4-8 (Round opening)

REGISTER BOOT, PERIMETER

RB43xyyz

x = 2, 4 (Register height)
yy = 10-14 (Register width)
z = 4-10 (Round opening)

REGISTER PAN

RB50xxyy **5" High**
RB51xxyy **11" High**

x = 04-12 (Register height)
yy = 10-14 (Register width)
1/2" Flange standard

REGISTER BOOT W/UL APPROVED CEILING RADIATION DAMPER

RB10xyyz**FS**a **End**
RB20xyyz**FS**a **Straight**
RB30xyyz**FS**a **Elbow**

ASSEMBLY RATED CRD BOOT

RB15xxyyzb **End**
RB25xxyyzb **Straight**
RB35xxyyzb **Elbow**

x = 4-8 (Register height)
yy = 06-14 (Register width)
z = 04-10 (Round opening)
a = 6 (Throat extension)
b = Blank - 1/2" SR Flng (standard), 1 - 1" SR Flange
Standard 165° Link, 212°available
Example: RB304126FS6 4x12x6 CRD Elbow Boot
w/6" extension
RB3541261 4x12x6 Assembly Rated CRD
Elbow Boot w/ 1" SR Flng

BOOT RAIL

RB66xx

xx = 16, 25, 26 (Length)
N = No holes)

REGISTER BOOT W/SR FLANGE

RB10xxyyz**F**a
RB20xxyyz**F**a
RB30xxyyz**F**a

All Boots have option for 1" Edge Flange w/
a=blank 1/2" SR flange or a=1 for 1" SR flange

TOE KICK BOX
RB94xxyy
xx = 02, 03 (Register Height)
yy = 10, 12 (Register Length)
Open register side only or
register side and bottom.
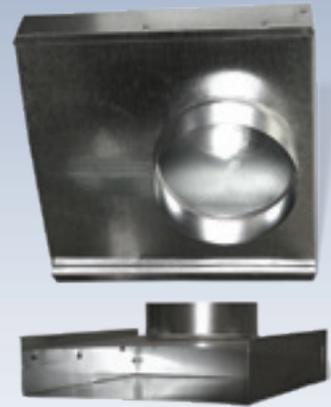
TOE KICK BOOT W/COLLAR
RB95xyyz
xx = 2, 3 (Register Height)
yy = 10, 12 (Register Length)
zz = 4, 6 (Round collar)
Toe Kick Boot w/Oval Collar OB95
available, see page 17.
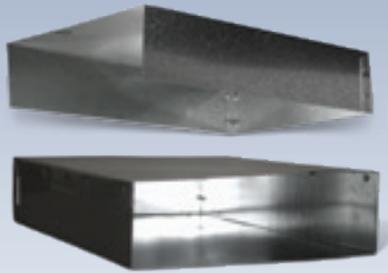
THRU BOX
RB92xxyyzzaabb
xx = 10 (Register Opening Width)
yy = 04 (Register Length)
zz = 12 (Box Height)
aa/bb = 04-08 (Collar diameter in/out)
Ex: RB921004120806 4x10 w/8" in, 6" out

BOOT FRAME
RB70xxyyzz
xx = 04-12 (Register width)
yy = 06-14 (Register length)
zz = 16 or 24 (Frame length)
24" fits both 16" and 24" stud lengths
Stamped design with rounded edges

ROUND BOOT FRAME
RB71xxzz
xx = 06-12 (Round opening)
zz = 24 (Frame length)

SPEEDI-BOOT HANGER
RB80xxyy
xx = 04, 06, 08 (Register height)
yy = 10, 12, 14 (Register width)
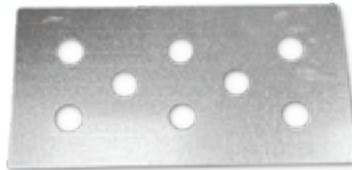
REGISTER COVER PLATE
RB73xxyy
xx = Register width (04, 06, 08)
yy = Register length (10, 12, 14, 16)

ADJUSTABLE ELBOWS/ANGLES

ADJUSTABLE ELBOW
RX53xxyyzz
xx = 03-36 (Diameter)
yy = 30, 28, 26, 24 or 22 (GA)
zz = Blank (Boxed or donut > 10")
       SB (Straight boxed)
       SR (Straight racked)

ADJUSTABLE ANGLE
RX50xxyyz
xx = 03-36 (Diameter)
yy = 30, 26, 24 or 22 (GA)
z = 3P (3 piece), 2pc. stndrd

LONG RADIUS ELBOW
RX54xxyy
xx = 03-20 (Diameter)
yy = 26 or 24 (GA)

STRAIGHT BOXED PACKAGING

Solid Ring RX10xxRG

SHORT START COLLAR WITH ADDED SOLID RING

RX10xxRG No Crimp
RX11xxRG Crimped
xx = 04-40 (Diameter)

LONG STARTING COLLAR

RX12xx
RX13xx w/Damper
xx = 04-36 (Diameter)
6" Body Length
Options: RG (Solid Ring)

SHORT STARTING COLLAR

RX10xx No Crimp
RX11xx Crimped
xx = 04-40 (Diameter)

TABLOC LONG STARTING COLLAR W/ SERRATED FLANGE

RX12Txx
RX13Txx
w/Damper (riveted)
xx = 04-20 (Diameter)
Ships nested. Quick tabloc wont release!

LONG ROTH STARTING COLLAR

RX16xx
Medium sized body (4" long)
xx = 03-24 (Diameter)

GARY SHORT START COLLAR W/ INTEGRATED RING

RX10Gxx No Crimp
RX11Gxx Crimped
xx = 4-16

FLEX CONNECTOR

RX58xxzz
xx = 03-24 (Diameter)
zz = 30, 26 (GA)
Used to join short pieces of flex.

CONNECTOR W/WAVEY WASHER

RX58Rxx
xx = 03-24 (Diameter)
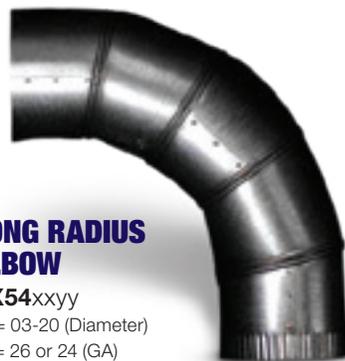High-friction couplers allow damper adjustment from register opening.

ROUND END CAP

RX21xxzz (421) No Crimp
RX22xxzz (422) Crimped
xx = 03-24 (Diameter)
zz = 22, 24 (GA) Blank = 26GA

ROUND FLEX CONNECTOR

DX36Rxx
xx = 03-24 (Diameter)
Provides isolation of furnace and air handler vibration and noise from round duct systems.

NORTH P 440.381.8244
F 440.381.8242

SOUTH P 704.734.0544
F 704.734.0993

MIDWEST P 715.227.9884
F 715.227.9321

GREAT PLAINS P 308.210.9710
F 308.210.9720

11

SQUARE ADJUSTABLE TAKEOFF

TO10xx No Damper
TO10Dxx Damper
xx = 04-24 (Diameter)

RECTANGULAR NON-ADJ. TAKEOFF

TO20xx
xx = 04-18 (Diameter)

ROUND ADJUSTABLE TAKEOFF

TO30xx No Damper
TO30Dxx Damper
xx = 04-20 (Round Diameter)
Tabbed opening is 1"larger than round

ROUND ADJ. TO, HALF-TAB

TO33xx No Damper
xx = 05-07 (Diameter)

SQUARE TOP NON-ADJ. TAKEOFF

TO50xx 0" R
TO51xx 1" R
TO52xx 2" R
xx = 04-18 (Diameter)

SQUARE ADJUSTABLE TO, ROTH

TO16xx No Damper
xx = 06-18 (Diameter)

ROUND SIDE TAKEOFF

TO36xx No Damper
TO36Dxx Damper
xx = 04-20 (Diameter)

SQUARE SIDE TAKEOFF

TO38xx No Damper
TO38Dxx Damper
TO38DExx Damper Ext Kit
xx = 04-24 (Diameter)

DOUBLE TAKEOFF

TO40xx 0" R
TO41xx 1" R
TO42xx 2" R
xx = 04-08 (Diameter)

ROUND-STACK TRANSFORMER

TO80xx
xx = 04-24 (Diameter)
Specify Stack opening

ADJUSTABLE ELBOW TAKEOFF

TO93xx
xx = 04-08 (Diameter)

CONICAL SPIN-IN TAKEOFF

DX69xx No damper
DX69Dxx Damper
DX69DExx Damper Ext Kit
xx = 04-24 (Diameter)

ROUND SPIN-IN TAKEOFF

DX70xx
No damper
DX71xx
Damper
DX71Exx
Damper Ext Kit
xx = 04-18 (Diameter)

ROUND SPIN-IN TO W/SCOOP

DX72xx
45° Scoop
DX73xx
90° Scoop
DX74xx
45° Scoop & Damper
DX75xx
90° Scoop & Damper
xx = 04-18 (Diameter)

ROUND SADDLE ADHESIVE TO

TA09xx No damper
TA09Dxx Damper
TA09DSxx Damper & Scoop
TA09Sxx Scoop
xx = 06-32 (Diameter)

RECTANGULAR NON-ADJ. ADHESIVE TO

TA20xx No damper
TA20Dxx Damper
xx = 06-16 (Diameter)

SQUARE CONICAL ADHESIVE TO

TA38xx No damper
TA38Dxx Damper
xx = 04-26 (Diameter)

ROUND CONICAL ADHESIVE TO

TA60xx No damper
TA60Dxx Damper
xx = 04-24 (Diameter)

ROUND ADJ. ADHESIVE TAKEOFF

TA30xx No damper
TA30Dxx Damper
xx = 04-12 (Diameter)

SQUARE ADHESIVE TAKEOFF

TA39xx No damper
TA39Dxx Damper
xx = 04-24 (Diameter)

RECTANGULAR ADJ. ADHESIVE TAKEOFF

TA10xx No damper
TA11xx Damper
xx = 06-16 (Diameter)

TOP SQ. ADHESIVE TAKEOFF

TA51xx 1"R No damper
TA51Dxx 1"R Damper
TA52xx 2"R No damper
TA52Dxx 2"R Damper
xx = 04-16 (Diameter)

ROUND ADHESIVE TAKEOFF

TA40xx No damper
TA40Dxx Damper
TA40DSxx Damper & Scoop
TA40Sxx Scoop
TA40Fxx Flange
xx = 06-32 (Diameter)

HIGH EFFICIENCY TAKEOFF

TA57xx No damper
TA57Dxx Damper
xx = 04-26 (Diameter)

ADHESIVE ADJUSTABLE ELBOW

TA93xx
xx = 04-08

Lukjan can manufacture any adhesive fitting using Anti-Microbial (AgION) coated steel. Call for special quote

SUBMITTALS for any Adhesive Takeoff available upon request
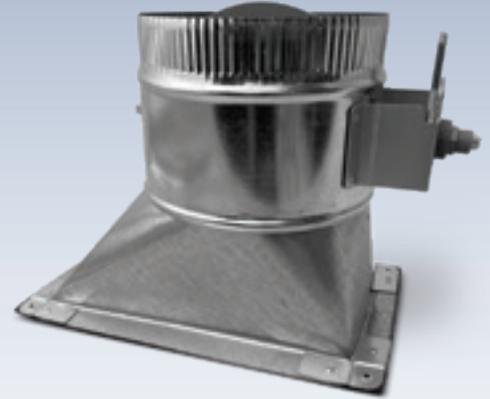
ROUND SADDLE ADHESIVE TAKEOFF
TA09CExx
xx = 04-20

ROUND FLAT ADHESIVE TAKEOFF
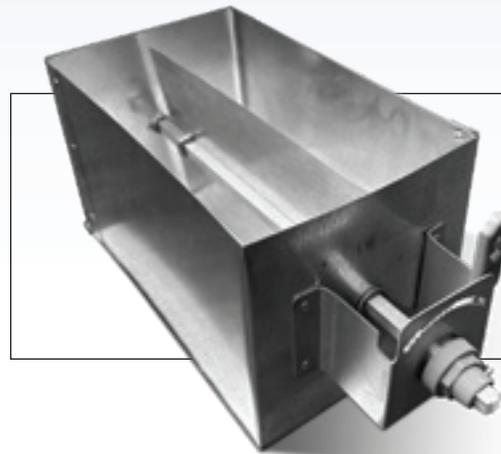**TA40CE**xx
xx = 04-20

HIGH-EFFICIENCY ADHESIVE TAKEOFF
TA57CExx
xx = 04-20

CONICAL ADHESIVE TAKEOFF
TA60CExx
xx = 04-20

DUCT DAMPER SLEEVE
DX51CExxyyzz (Commercial)
xx= 06-14 (Drive)
yy = 08-24 (Slip)
zz = Drive +2" (Length)

COMMERCIAL DAMPER EXTENSION UNIT
RX30E02
2" 18GA Standoff Extension with 15 position locking high strength flame retardant polymer damper handle that indicates damper blade position. Works with 3/8" aluminum damper rod and slotted damper RX30C (sold separately)

COMMERCIAL DAMPER BLADE ASSEMBLY
RX30Cxx
xx = 06-18
Slotted damper blade with 3/8" damper rod (2) nylon bushings for air-tite seal.
Locking regulator (RX30E02) sold separately.

All Commercial Adhesive Takeoffs utilize a 2" Standoff with 15 position locking damper regulator (RX30E02) and a 3/8" aluminum rodded damper blade with nylon bushings for a sealed, smooth damper rotation. After locking in place, damper will not loosen and freely rotate like standard dampers operating in commercial environments.

To purchase a set, order (1) 2" Extension Unit (RX30C02) and (1) Damper Blade Assembly (RX30Cxx)

DUCTBOARD COLLAR–SOLID RING

DX76xx

xx = 04-24

Options: L = Tabs for R6
L2 = Tabs for R8

TABLOC DUCTBOARD COLLAR W/ SERRATED FLANGE

DX77xx

xx = 04-24
Standard supports both R6 and R8

SQUARE ADJ. DUCTBOARD TAKEOFF

TO14xx
TO14Dxx **w/Damper**

xx = 04-16
Standard supports R4
Options: U (Universal; R6 and R8)

DUCTBOARD COLLAR W/DAMPER

DX38xx

xx = 04-24

Options: L = Tabs for R6
L2 = Tabs for R8
Blank = Standard R4
S = Scoop

TABLOC DB COLLAR W/DAMPER W/ SERRATED FLANGE

DX39xx

xx = 04-18
Standard supports both R6 & R8

SQUARE NON-ADJ. DB TAKEOFF

TO18xx
TO18Dxx **w/Damper**

xx = 04-12
Standard supports R4
Options: U (Universal; R6 and R8)

DB TWIST-IN COLLAR

DX60xx
DX61xx **w/Damper**

xx = 04-20

DB TWIST-IN COLLAR W/SCOOP

DX62xx **45° Scoop**
DX63xx **90° Scoop**
DX64xx **45° Scoop & Damper**
DX65xx **90° Scoop & Damper**

xx = 04-20

NON-ADJ. DB TAKEOFF W/1" RISE

TO54xx
TO54Dxx **w/Damper**

xx = 06-14
Standard supports R4
Options: U (Universal; R6 and R8)
L2 (R8 only)

ADJ. ELBOW DB TAKEOFF

TO94xx
TO94Dxx **w/Damper**

xx = 05-16

ADJ. ANGLE DB TAKEOFF

TO95xx
TO95Dxx **w/Damper**

xx = 06-16

ROUND ADJ. DB TAKEOFF

TO31xx **)**

xx = 05-08

SQUARE SIDE DB TAKEOFF
TO39x
xx = 05-12

DOUBLE DB TAKEOFF
TO45xx
xx = 06, 07, 08

DB RECTANGULAR STARTING COLLAR
DX35xxyy
xx = 10, 12
yy = 20, 24
Specify R4, R6 or R8 Ductboard

DB METAL BOOT FACE
Used in making DB ceiling boxes
CA75xxyyz
xx = 04, 06, 08 (Register Width)
yy = 8, 10, 12, 14 (Register Length)
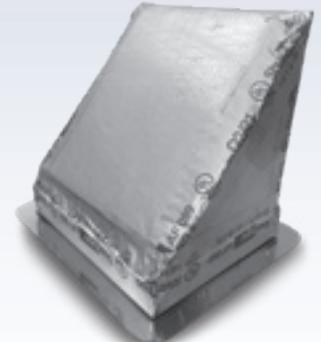z = 1, 2 (1 = R4, 2= R8)

DUCTBOARD COLLAR BOX
For making DB Supply Air Boxes
DX83xxyyz
xx = 12-20 (Cold Air Vent Width)
yy = 12-24 (Cold Air Vent Length)
z = 3 (Standard Height)

DUCTBOARD STRAIGHT BOOT
(South only)
DB20xxyy**R**a
No Collar
xx = 04-08 (Smaller register opening)
yy = 06-14 (Larger register opening)
a : 4 = 1", 6 = 1.5", 8 = 2" (Insulation value)

DUCTBOARD ANGLE BOOT
(South only)
DB40xxyy**R**a
No Collar
xx = 04-08 (Smaller register opening)
yy = 06-14 (Larger register opening)
a : 4 = 1", 6 = 1.5", 8 = 2" (Insulation value)

CEILING BOXES AND BOOTS

CEILING BOOT SIDE
RB60xxyyzz
xx = 06-20 (Register Length)
yy = 06-14 (Register Width)
zz = 04-12 (Diameter out)
Example: 10x6x6 = RB60100606

CEILING BOX SIDE
RB61xxyyzz
xx = 06-24 (Register Length)
yy = 06-24 (Register Width)
zz = 04-20 (Diameter out)
Options: FS = CRD Installed

CEILING BOX TOP
RB62xxyyzz
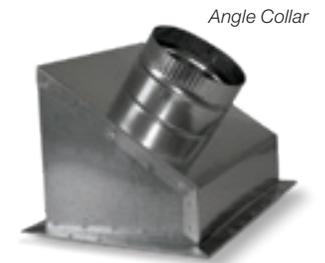xx = 06-24 (Register Length)
yy = 06-24 (Register Width)
zz = 04-20 (Diameter out)
Options: FS = CRD Installed

All Ceiling Boxes come standard with Flanges

Angle Collar

Straight Collar

CEILING BOX ANGLE
RB65xxyyzz
xx = 08-14 (Length)
yy = 06-14 (Width)
zz = 04-10 (Diameter out)
a = Blank (Straight collar),
    A (Angled collar)

For insulated ceiling boxes, see page 27

REDUCERS/INCREASERS

CAP REDUCER

RX23xxyy **w/Crimp**
RX24xxyy **No Crimp**
xx = 04-18 (Larger Diameter)
yy = 03-16 (Smaller Diameter)
Crimp on smaller diameter

CAP INCREASER

RX25xxyy **w/Crimp**
xx = 04-18 (Larger Diameter)
yy = 03-16 (Smaller Diameter)
Crimp on larger diameter

TAPERED REDUCER

RX40xxyyzz **w/Crimp**
RX41xxyyzz **No Crimp**
xx = 04-24 (Larger Diameter)
yy = 03-22 (Smaller Diameter)
zz = 30, 24, 22 (GA) Blank = 26GA
Crimp on smaller diameter

TAPERED INCREASER

RX43xxyyzz **w/Crimp**
xx = 04-16 (Larger Diameter)
yy = 03-12 (Smaller Diameter)
zz = 30, 24, 22 (GA) Blank = 26GA
Crimp on larger diameter

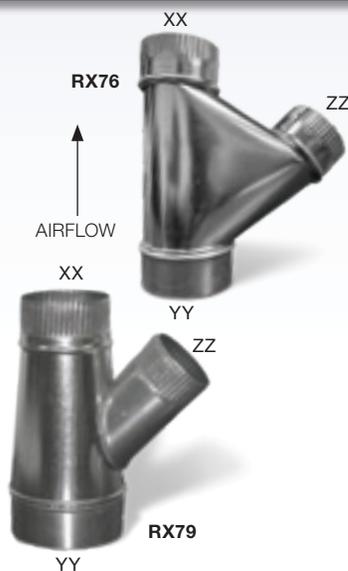# TEES AND WYES

FLARED TEES

RX70xxyyzz
xx = 03-36 (Air entry diameter)
yy = 03-36 (Air exit diameter crimped)
zz = 03-36 (Air exit diameter)
RX70xx = All branches equal diameter
Standard 26GA

REDUCING WYE

RX79xxyyzz
FULL FLOW REDUCING WYE
RX76xxyyzz
xx = 03-18 (Air exit diamter, crimped)
yy = 04-20 (Air entry diameter)
zz = 03-18 (Branch diameter, crimped)

FLUE WYE

RX80xxyyzz
FULL FLOW WYE
RX77xxyyzz
xx = 03-18 (Air Entry, furnace side)
yy = 04-20 (Air Eixt, flue side, crimped)
zz = 03-18 (Air Entry, Branch diameter)

SWIVEL TEES

RX71xxyyzz
xx = 04-06 (Lower branch diameter)
yy = 04-07 (Body diameter)
zz = 03-06 (Upper branch diameter)

TRUE TEES

RX75xxzz
xx = 04-08
zz = Blank for 26GA, 24 for 24GA

BRANCH WYE

RX81xxyyzz
xx = 03-20 (Air Entry diameter)
yy = 03-18 (Branch 1, crimped)
zz = 03-18 (Branch 2, crimped)
Bullhead is Branch 1 = Branch 2

BRANCH WYE, SINGLE ADJ.

RX82xxyyzz
xx = 03-14 (Air Entry diameter)
yy = 03-12 (Branch 1, crimped)
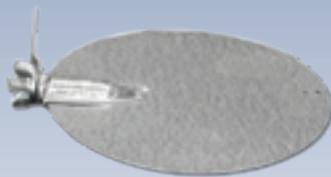zz = 03-12 (Adj. Branch 2, crimped)

BRANCH WYE, DOUBLE ADJ.

RX83xxyyzz
xx = 03-14 (Air Entry diameter)
yy = 03-12 (Adj. Branch 1, crimped)
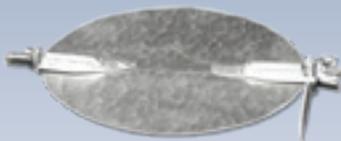zz = 03-12 (Adj. Branch 2, crimped)

DAMPER W/ 1 HARDWARE
RX31xx **(10)**
xx = 03-12 (Diameter)
Damper blade, Spring loaded damper clip, washer, wing nut, handle all 5/16"

DAMPER W/ 2 HARDWARE
RX32xx **(10)**
xx = 04-36 (Diameter)
Damper blade, 2 Spring loaded damper clips, 2 washers, 2 wing nuts and 2 handles all 5/16"

ECONOMY DAMPER W/ 1 HRDWR ASSEMBLED
RX35xx **(11)**
xx = 04-12 (Diameter)
Damper blade, Spade, washer, wing nut and handle all 1/4"

ECONOMY DAMPER W/ 2 HRDWR ASSEMBLED
RX37xx **(11)**
xx = 04-18 (Diameter)
Damper blade, 2 Spades, 2 washers, 2 wing nuts and 2 handles all 1/4"

DAMPER TUBES
RX39xxyy
RX39CExxyy
xx = 04-18 (Diameter)
yy = 06-20 (Height, even only)
Damper included
Double ECONO hardware for damper sizes up to 9", SLDC and PDC sizes ≥10"
CE Commerical Extension includes 3/8" rodded damper and locking regulator

Commerical Damper Ext

DAMPER HARDWARE KITS
HD01xx
xx = 01 (SLDC, H, W, WN)
02 (SLDC, H, W, WN, TDC)
03 (SLDC, H, W, WN, PDC)
04 (2-SLDC, H, W, WN)

DAMPER HANDLES
HD04xx
xx = 01 (Regular)
xx = 02 (Double , 1/4" and 5/16")

DAMPER WASHERS
HD02xx
xx = 01 (Flat 5/16")
xx = 01A (Flat 1/4")

DAMPER WINGNUTS
HD03xx
xx = 01 (Stamped 5/16")
xx = 01A (Stamped 1/4")

DAMPER CLIPS
HD05xx
xx = 01 (Threaded; TDC)
xx = 02 (Plain; PDC)
xx = 03 (Spring-Loaded; SLDC)

BUTTERFLY DAMPER
RX59xx
xx = 04 – 16 (Diameter)
Operates in horizontal mode only

DAMPER DISK BLANKS
HD06xx
xx = 03-36 (Diameter)

COMMERCIAL DAMPER EXTENSION UNIT
RX30E02

COMMERCIAL DAMPER BLADE ASSEMBLY
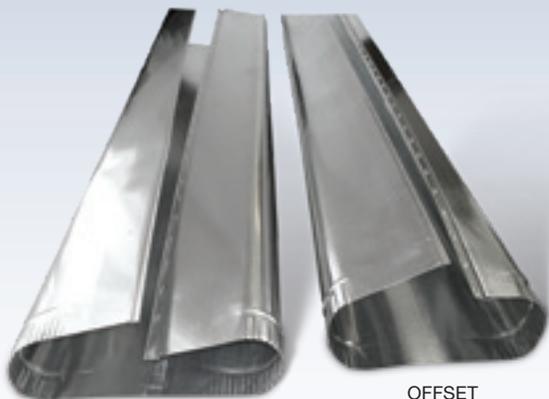**RX30C**xx

See page 14 for order details

SLDC	= Spring Loaded Damper Clip
TDC	= Threaded Damper Clip
PDC	= Plain Damper Clip
H	= Handle
W	= Washer
WN	= Wing Nut

OVAL PIPE

OP01xxyyy

xx = 05, 06, 07, 08, 10 (Oval dimension)
yyy = 060, 100, 112, 113, 120 (Length)
Standard 30GA center seam, buttonlock.
Optional offset seam, 26GA.

CENTER   OFFSET

BRANCH DUCT (IN)	MAJOR (IN)	MINOR (IN)	CIRCUMF. (IN)	X-SEC. AREA (SQ. IN.)	CAPACITY (CFM) .10 S.P.	EQUIV. ROUND (IN)
5 ROUND			15.7	19.6	68	
6 ROUND			18.8	28.3	108	
7 ROUND			22.0	38.5	160	
8 ROUND			25.2	50.3	230	
5 OVAL	6.0	3.25	15.7	15.3	53	4.6
6 OVAL	7.6	3.25	18.8	19.3	78	5.2
7 OVAL	9.1	3.25	22.0	23.3	92	5.7
8 OVAL	10.7	3.25	25.2	27.3	118	6.1
10 OVAL	13.8	3.25	31.4	35.3	148	6.8
3-1/4X10 STACK			26.5	32.5	108	6.0
3-1/4X12 STACK			30.5	39.0	134	6.5

Lukjan offers a complete line of Oval Pipe and Fittings 5" thru 8"

Oval Pipe lengths standard at 60" and 100". Other lengths available.

OVAL PIPE RACK QTY	
	ANY LENGTH
6	400
7	320
8	300

OVAL VERTICAL ANGLE

OX52xx

xx = 5, 6, 7, 8

OVAL VERTICAL ELBOW

OX54xx

xx = 5, 6, 7, 8

OVAL HORIZONTAL ANGLE

OX51xx

xx = 5, 6, 7, 8

OVAL HORIZONTAL ELBOW

OX53xx

xx = 5, 6, 7, 8

OVAL TO ROUND BOOT, END

OB71xxyy

xx = 5, 6, 7, 8 (Oval dimension)
yy = 5, 6, 7, 8 (Round dimension)
For Round = Oval, leave yy blank
Options: CO = Crimp oval end
         CR = Crimp round end

OVAL TO ROUND BOOT, STRAIGHT

OB72xxyy

xx = 5, 6, 7, 8 (Oval dimension)
yy = 5, 6, 7, 8 (Round dimension)
For Round = Oval, leave yy blank
Options: CO = Crimp oval end
         CR = Crimp round end

OVAL TO ROUND BOOT, ELBOW

OB75xxyy

xx = 5, 6, 7, 8 (Oval dimension)
yy = 5, 6, 7, 8 (Round dimension)
For Round = Oval, leave yy blank
Options: CO = Crimp oval end
         CR = Crimp round end

OVAL TO OVAL REVERSE ELBOW

OB78xx

xx = 5, 6, 7, 8 (Oval dimension)

OVAL BOOT, END
OB10xyyz
x = 2, 3, 4, 6 (Register height)
yy = 10, 12, 14 (Register width)
z = 5, 6, 7, 8 (Oval opening)

OVAL BOOT, STRAIGHT
OB20xyyz
x = 2, 3, 4, 6 (Register height)
yy = 10, 12, 14 (Register width)
z = 5, 6, 7, 8 (Oval opening)
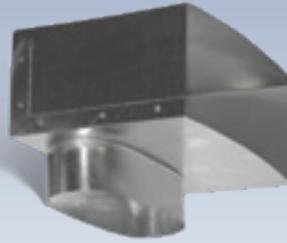
OVAL BOOT, ELBOW
OB30xyyz
x = 2, 3, 4, 6 (Register height)
yy = 10, 12, 14 (Register width)
z = 5, 6, 7, 8 (Oval opening)

OVAL BOOT, ANGLE
OB40xyyz
x = 2, 3, 4, 6 (Register height)
yy = 10, 12, 14 (Register width)
z = 5, 6, 7, 8 (Oval opening)

OVAL STACKHEAD
OX10xxyyz
xx = 4, 6, 8, 10 (Register height)
yy = 8, 10, 12, 14 (Register width)
z = 5, 6, 7, 8 (Oval opening)
Standard with ears

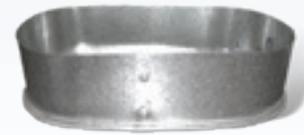### OVAL STACKHEAD, DOUBLE
OX11xxyyz
xx = 4, 6, 8, 10 (Register height)
yy = 8, 10, 12, 14 (Register width)
z = 5, 6, 7, 8 (Oval opening)

OVAL STACKHEAD, SPLIT
OX12xxyyz
xx = 4, 6 (Register height)
yy = 10, 12 (Register width)
z = 6, 7 (Oval opening)

OVAL CAP
OX21xx (No Crimp)
xx = 5, 6, 7, 8

OVAL START COLLAR
OX63xx Crimp
OX64xx No Crimp
xx = 5, 6, 7, 8

OVAL TOP TAKEOFF
OX60xx
xx = 5, 6, 7, 8

OVAL TOP TAKEOFF, DUCTBOARD
OX62xx
xx = 5, 6, 7, 8

OVAL ADHESIVE TAKEOFF
OX40xx
xx = 5, 6, 7, 8

OVAL DUCTBOARD START COLLAR
OX76xx
xx = 5, 6, 7, 8

OVAL ADAPTER
OX70xyyz
xx = 2, 3, 4 (Stack height)
yy = 10, 12, 14 (Stack width)
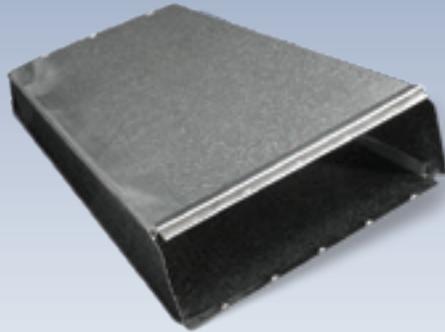z = 6, 7 (Oval opening)

OVAL FIRE STOP
OX90xx
xx = 5, 6, 7, 8
Sold as individual pieces
Order (2) for pair

WALLSTACK, 2PC. SNAP LOCK

SK01xyyzzz
x = 2, 3 (Stack depth), 2 = 2.25, 3 = 3.25
yy = 08, 10, 12, 14 (Stack width)
z = 012–096 (Stack length)
Standard lengths are 024, 060, 096
Other lengths available

STACK BOOT, END

SB10xyyz
x = 2, 3 (Stack depth)
yy = 08, 10, 12, 14 (Stack width)
z = 4, 5, 6, 7, 8 (Round opening)
Standard with Stack Clips

STACK BOOT, STRAIGHT

SB20xyyz
x = 2, 3 (Stack depth)
yy = 08, 10, 12, 14 (Stack width)
z = 4, 5, 6, 7, 8 (Round opening)
Standard with Stack Clips

STACK BOOT, ELBOW

SB30xyyz
x = 2, 3 (Stack depth)
yy = 08, 10, 12, 14 (Stack width)
z = 4, 5, 6, 7, 8 (Round opening)
Standard with Stack Clips

STACK BOOT, ANGLE

SB40xyyz
x = 3 (Stack depth)
yy = 10, 12, 14 (Stack width)
z = 6, 7 (Round opening)
Standard with Stack Clips

WALLSTACK VERTICAL ELBOW

SX21xxyy
xx = 02, 03 (Stack depth)
yy = 08, 10, 12, 14 (Stack width)

WALLSTACK VERTICAL ANGLE

SX23xxyy
xx = 02, 03 (Stack depth)
yy = 08, 10, 12, 14 (Stack width)

WALLSTACK REVERSE ELBOW

SX24xxyy
xx = 02, 03 (Stack depth)
yy = 08, 10, 12, 14 (Stack width)

WALLSTACK HORIZONTAL ELBOW

SX25xxyy
xx = 02, 03 (Stack depth)
yy = 08, 10, 12, 14 (Stack width)
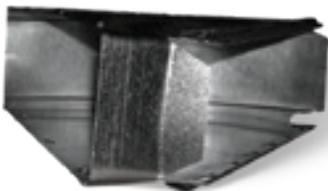
WALLSTACK HORIZONTAL ANGLE

SX27xxyy
xx = 02, 03 (Stack depth)
yy = 08, 10, 12, 14 (Stack width)
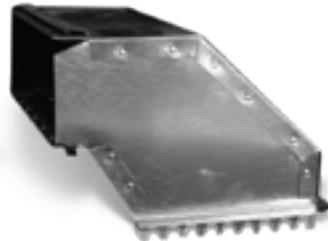
WALLSTACK STARTING COLLAR

SX33xxyy
xx = 02, 03 (Stack depth)
yy = 10, 12, 14 (Stack width)

WALLSTACK TOP TAKEOFF

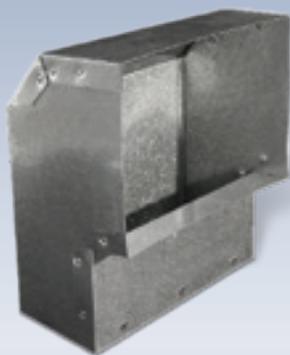**SX41**xyy
x = 2, 3 (Stack depth)
yy = 10, 12, 14 (Stack width)

WALLSTACK SIDE TAKEOFF

SX42xyy
x = 3 (Stack depth)
yy = 10, 12, 14 (Stack width)

STACKHEAD, SHORT

SX70xyyabb

x = 2, 3 (Stack depth)
yy = 10, 12, 14 (Stack width)
a = 4, 6, 8 (Register width)
bb = 10, 12, 14 (Register height)

STACKHEAD, LONG W/EARS

SX71xyyabb

x = 2, 3 (Stack depth)
yy = 10, 12, 14 (Stack width)
a = 4, 6, 8 (Register width)
bb = 10, 12, 14 (Register height)

STACKHEAD, LONG

SX72xyyabb
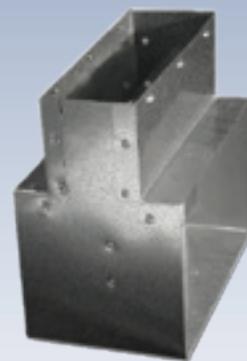
x = 2, 3 (Stack depth)
yy = 10, 12, 14 (Stack width)
a = 4, 6, 8 (Register width)
bb = 10, 12, 14 (Register height)

STACKHEAD, DOUBLE

SX73xyyabb

x = 2, 3 (Stack depth)
yy = 10, 12, 14 (Stack width)
a = 4, 6, 8 (Register width)
bb = 10, 12, 14 (Register height)
bb = 10, 12, 14 (Register height)

STACKHEAD, OUT OF WALL

SX74xyyabb

x = 2, 3 (Stack depth)
yy = 10, 12, 14 (Stack width)
a = 4, 6 (Register width)
bb = 10, 12, 14 (Register height)

STACKHEAD

SX75xyyabb

x = 2, 3 (Stack depth)
yy = 10, 12, 14 (Stack width)
a = 4, 6 (Register width)

STACK ADAPTER, STRAIGHT

SX80xyyabb

x = 3 (Stack A depth)
yy = 10, 12, 14 (Stack A width)
a = 2 (Stack B depth)
bb = 10, 12, 14 (Stack B width)

STACK ADAPTER, ELBOW

SX81xyyabb

x = 3 (Stack A depth)
yy = 10, 12, 14 (Stack A width)
a = 2, 4, 6 (Stack B depth)
bb = 10, 12, 14 (Stack B width)

OFFSET STACK

SX94xyyabb
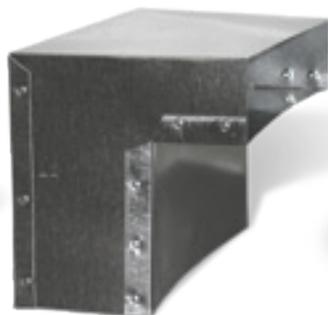
x = 2, 3 (Stack A depth)
yy = 10, 12, 14 (Stack A width)
a = 2, 3, 4, 6 (Stack B depth)
bb = 10, 12, 14 (Stack B width)
3" Standard Offset, 9" long

JIMMY BOOT

SX96xyyabb

WALLSTACK CONNECTOR

SX35xyy

x = 2, 3 (Stack depth)
yy = 10, 12, 14 (Stack width)

WALLSTACK END CAP

SX44xyy

x = 2, 3 (Stack depth)
yy = 10, 12, 14 (Stack width)

GALVANIZED SPIRAL PIPE

GP02xxyyzz **(order by length)**

PAINT GRIP SPIRAL PIPE

GP04xxyyzz **(order by length)**

xx = 03-36 (Pipe diameter)
yy = 22, 24, 26 (GA)
zz = 01-10 (Length in feet)
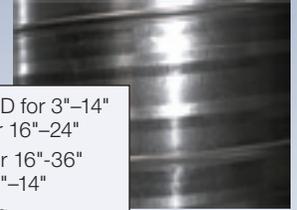10' lengths standard
Options: Smooth or Raised
Cut charge for non-standard sizes

Smooth

Raised

SMOOTH surface STANDARD for 3"–14"
Smooth surface also avail for 16"–24"
RAISED bead STANDARD for 16"-36"
Raised bead also avail for 10"–14"
Please specify when ordering

GALVANIZED SPIRAL ELBOWS

RX53xxyy**GS**
RX53xxyy**PG** **(Paint Grip)**
Crimp both ends.
xx = 03-36 (Diameter)
yy = 22, 24, 26 (GA)

GALVANIZED SPIRAL ANGLES

RX50xxyy**GS**
RX50xxyy**PG** **(Paint Grip)**
Crimp both ends.
xx = 03-36 (Diameter)
yy = 22, 24, 26 (GA)

SPIRAL CONNECTOR

RX58xxyy
RX58Dxxyy **(w/Damper)**
RX58xxyy**PG** **(Paint Grip)**
xx = 04-36 (Diameter)
yy = 26, 24, 22 (GA)
Options: W (Wavey washer: damper only)

SHOE TAP

RX66xxyy
RX66xxyy**PG** **(Paint Grip)**
xx = 03-16 (Diameter)
yy = 26, 24 (GA)

GALVANIZED SPIRAL REDUCER

RX44xxyyzz
RX44xxyyzz**PG** **(Paint Grip)**
Crimp both ends.
xx = 04-36 (Larger diameter)
yy = 03-30 (Smaller diameter)
zz = 22, 24, 26 (GA)

SPIRAL ECCENTRIC REDUCER

RX44Exxyyzz
RX44Exxyyzz**PG** **(Paint Grip)**
Sizes same as RX44. Flat one edge.

SPIRAL REGISTER SADDLE W/ADHESIVE

RX64xxyyzz
RX64xxyyzz**PG** **(Paint Grip)**
xx = 03-20 (Register Width)
yy = 10-30 (Register Length)
zz = 22, 24 (GA), Blank for 26GA

SPIRAL REGISTER SADDLE

RX65xxyyzz
RX65xxyyzz**PG** **(Paint Grip)**
xx = 03-20 (Register Width)
yy = 10-30 (Register Length)
zz = 22, 24 (GA), Blank for 26GA
Options: FI (1" Flange In)
When ordering FI, box size will be
+2" larger (ie: 4x10 FI = RX650410FI,
box size will be 6x12)

SPIRAL SADDLE FLUE W/90° TO

RX61xxyyzz
RX61xxyyzzy**PG** **(Paint Grip)**
xx = 03-20 (Takeoff Diameter)
yy = 22, 24, 26 (GA)
zz = 08-20 (Pipe diameter to fit)
Example: 14" 24GA 90 Takeoff
to fit 18" pipe

SPIRAL SADDLE FLUE W/45 TO

RX60xxyy
RX60xxyy**PG** **(Paint Grip)**
xx = 04-36 (Diameter)
yy = 24, 22 (GA) Blank 26GA

GALVANIZED SPIRAL END CAPS

RX22xxyy **Crimped**
RX22xxyy**PG** **(Paint Grip)**
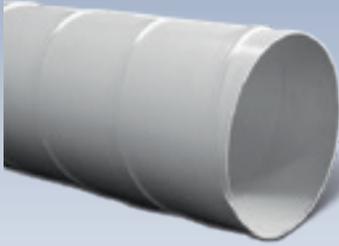xx = 03-24 (Diameter)
yy = 24, 22 (GA) Blank for 26GA

CONE SADDLE

RX62xxzz
xx = 4-9 (Diameter)zz = 26, 24 (GA)
Examples: RX620426 4" fits 6"-8"
RX620826 8" fits 10"-12"

PVC SPIRAL PIPE
VP01xx **(order by feet)**
xx = 04-36 (Diameter)
VP02xxzzyy **(order by length)**
xx = 04-36 (Diameter)
zz = 26 or 24 GA
yy = 01-10 (feet))
Options: Smooth or Raised Seam

ALL PVC PRODUCTS
1 mil coating inside
4 mil coating outside

PVC ANGLE
VX50xx
x = 04-36 (Diameter)

PVC ELBOW
VX53xx
x = 04-36 (Diameter)

PVC STARTING COLLAR
VX11xx
x = 04-36 (Diameter)

PVC ECCENTRIC REDUCER
VX44xxyy
xx = 06-28 (Larger Diameter)
yy = 04-26
Tapered reducer optional

PVC END CAP
VX20xx
x = 03-36 (Diameter)

PVC CONNECTOR
VX58xx
x = 04-36 (Diameter)

PVC REGISTER BOOT, END
VB10xyyz
x = 2-6 (Register height)
yy = 06-14 (Register width)
z = 4-10 (Round opening)
Specify L = Left, R= Right

PVC REGISTER BOOT, STRAIGHT
VB20xyyz
x = 2-6 (Register height)
yy = 06-14 (Register width)
z = 4-10 (Round opening)

PVC REGISTER BOOT, ELBOW
VB30xyyz
x = 2-6 (Register height)
yy = 06-14 (Register width)
z = 4-10 (Round opening)

PVC PERIMETER BOOT
VB70xyyz
x = 2-6 (Register height)
yy = 06-14 (Register width)
z = 4-10 (Round opening)

PVC REGISTER SADDLE
VX61xyy
x = 2-08 (Register height)
yy = 06-24 (Register width)

PVC 45° SADDLE
VX62xx
xx = 04-16 (Takeoff Diameter)

PVC 90° SADDLE
VX63xx
xx = 04-36 (Takeoff Diameter)

PVC SHOE TAP
VX66xx
xx = 06-12 (Takeoff Diameter)

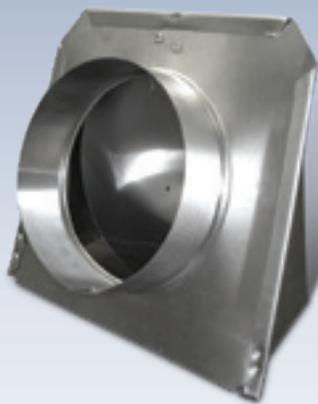## PVC TRUE TEE
VX70xx
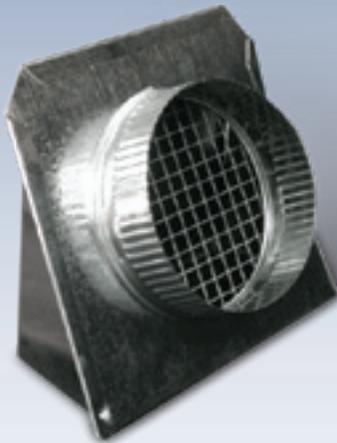xx = 06-26

PVC FLUE WYE
VX80xx
xx = 06-36

PVC TOUCH-UP PAINT
VX9001
12 oz. Can, 6/box

GALVANIZED DRYER VENTS

EX74xx
xx = 03-10
Standard with air flap

ALUMINUM DRYER VENTS

AX74xx
xx = 03-12
Standard with air flap

GALV. FRESH AIR INTAKES

CA64xx
CA64Dxx   **w/Damper**
xx = 04-16
Standard with screen

ALUMINUM FRESH AIR INTAKE

AX64xx
xx = 04-14
Standard with screen

DRYER WALL BOXES

EX30xxy
xx = 35 (3.5" deep, oval opening)
      425 (4.25" deep, round opening)
y = U (Upward)
    D (Downward)

DRYER ELBOW

EX53Cxx
Non-Adjustable 4" long radius elbow for improved dryer airflow
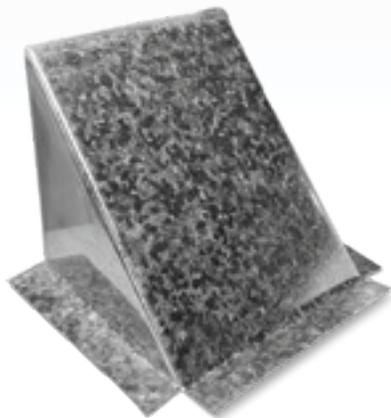
LINE SET CAP

EX10xx
xx = 03, 04, 06, 08, 10, 12 (Width)

LINE SET COVER

EX11xxyyzzz
xx = 03, 04, 06, 08, 10, 12 (Width)
yy = 04 (Depth)
zzz = 096, 120 (Length)
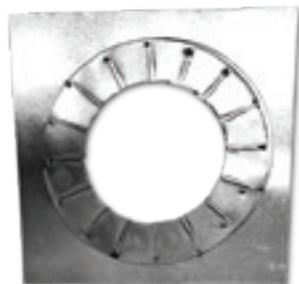
VENT FASTENER

EX09xx
xx = 03, 04, 05, 06, 07, 08 (Diameter)
Standard 24GA
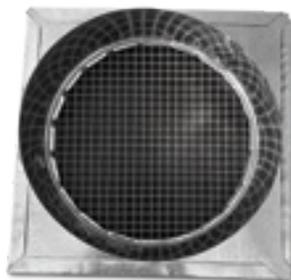
SOFFIT VENT COVER

EX14xx
xx = 04, 06 (Diameter)
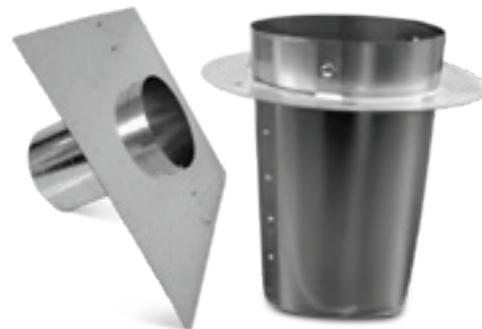
EXHAUST FLASHING

EX21xxyyyy **(Sqr plate style)**
EX21xx**1R** **(Ring style)**
xx = 03, 04, 06 (Diameter)
yyyy= 0808, 1010, 1212 (Plate dim.)
1R = 1" Ring
Ex: EX21041010 4" Diameter w/10x10 Plate

DUCT HANGER "Z" STYLE
DX14xx
xx = 08, 09, 10 (Length)

STRAPPING COIL
DX16xyyyzz
x = 1, 15 or 2 (inches
yyy= 100 (Length feet)
zz = 30, 24. Blank for 26GA
Options: P (Perforated)

ADJUSTABLE DUCT HANGERS
DX20xx
xx = 16, 24 (Length adjustable to)
Options: P (Prong/Spear Tip)
T (Tab/Screw Tip)

"U" CHANNELS
DX08xxyyzz
xx = (Side 1 dimension)
yy = (Side 2 dimension)
zz = 036, 060, 096 (U Chnl Length)
Standard 26GA

ANGLE STRIPS
DX18xxyyzzaa
xx = (Side 1 dimension)
yy = (Side 2 dimension)
zzz = 018-0120 (Angle Length)
aa = 26, 28, 24, 22, 18   (GA)

SUPPORT BRACKETS
DX17xyyyzzhh
xx = 015, 03, 05 (1.5", 3", 5" Width)
yy = 18, 28 (Length inches)
zz =16, 18 (GA)
hh = 9, 16, 19 (# holes)

DUCT HANGER STRIPS
**DX15**xyyyzz
x = 1, 1.5, 3 (Width inches)
yyy = 012-120 (Length inches)
zz = 18, 22, 24, 26, 30 (GA)
No holes standard

BRIDGE SPEARS
RX95xyy
x = 1 (Width)
yy = 16, 20 (Length)
Standard 18GA

DUCT HANGER - ECONO
DX1552518
0.5" x 2.5" 18 GA

JAVELIN
RX96xxzz
xx = 20
zz = 22GA

CAN STOCK
DX07xyyzz
x = 2 (Side 1)
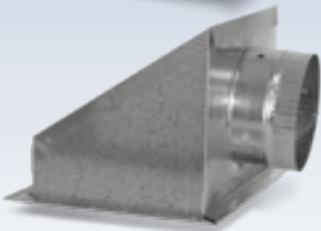yy or y = 15 - 2 (Side 2)
zz = 28, 26 (Gauge)
Ex: DX0721526   2"x1.5" 26GA

PIPE HANGER
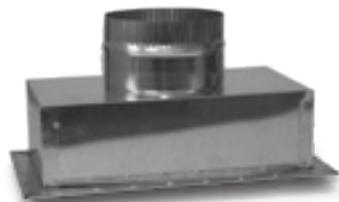**DX14**xx
xx = 14, 16, 24 (Length)

INSULATED CEILING BOX – ANGLE

RB65xxyyzza
xx = 08-14 (Register Length)
yy = 06-14 (Register Width)
zz = 04-10 (Diameter out)
a = R4, R6, R8 (Insulation factor)
Options: F = Flange, FS=CRD Installed
Specify collar angled or collar straight.

IINSULATED CEILING BOX – SIDE

RB61xxyyzza
xx = 06-24 (Register Length)
yy = 06-24 (Register Width)
zz = 04-20 (Diameter out)
a = R4, R6, R8 (Insulation factor)
Options: F = Flange, FS=CRD Installed

INSULATED CEILING BOX – TOP

RB62xxyyzza
xx = 06-24 (Register Length)
yy = 06-24 (Register Width)
zz = 04-20 (Diameter out)
a = R4, R6, R8 (Insulation factor)
Options: F = Flange, FS = CRD Installed
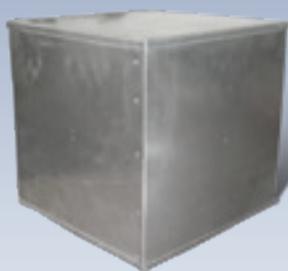
INSULATED BOXES

DX46xxyyzza
xx = 12-30 (Width)
yy = 12-30 (Length)
zz = 12-30 (Height)
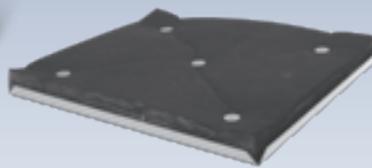a = R4, R6, R8 (Insulation factor)

INSULATED RECTANGULAR DUCT

DT01xxyyzza **26GA**
DT02xxyyzza **28GA**
DT03xxyyzza **24GA**
xx = 08-30 (Slip dimension)
yy = 08, 10, 12 (Drive dimension)
zz = 33, 36, 48, 60, 96 (Length)
a = R4, R6, R8 (Insulation factor)

INSULATED PLENUMS (NO TOP)

PL10xxyyzz**R**a **(w/Cap)**
PL11xxyyzz**R**a **(No Cap)**
xx = Plenum Width
yy = Plenum Depth
zz = Plenum Height
a = R4, R6, R8 (Insulation factor)
Note: All dimensions are outside dimensions and do NOT consider insulation thickness.
Standard 4 sides, x-broke. Top (PX18) included with PL10 and ordered separately with PL11.
Options: Two Piece Designs, Flange In/Out, Hem, R4, R6, R8 Insulation
Example: 16 x 20.5 x 48 R6 Insul Plenum PL10162048R6A

INSULATED PLENUM TOPS

PX18xxyya
xx = 10-28 (Plenum Width)
yy = 12-36 (Plenum Length)
a = R4, R6, R8 (Insulation factor)

INSULATED FURNACE BOX

CA50xxyyzza
xx = 14-40 (Box Depth)
yy = 14-28 (Box Width)
zz = 06-24 (Box Height)
a = R4, R6, R8 (Insulation factor)
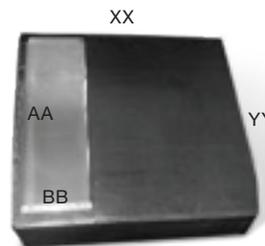
INSULATED FURNACE SUPPORT BOX

CA40xxyyg **Solid Style 12" High**
CA40xxyyaabbg **Cutout Style 10" High**
xx = 18-48 (Overall Box Length)
yy = 17-30 (Overall Box Width)
aa =24, 25 (Cutout Length)
bb = 08, 10, 12 (Cutout Width)
g = R4, R6, R8 (Insulation factor)

RETURN AIR PAN, NO COLLAR

CA58xxyyzza
xx = 10-24 (Wdith)
yy = 10-24 (Length)
zz = 04-16 (Height, Standard = 4")
a = R4, R6, R8 (Ductboard Insulation factor)

RETURN AIR BOX – INSULATED

CA59xxyyzza **No Collar**
xx = 10-24 (Wdith)
yy = 10-24 (Length)
zz = 10-24 (Height, Standard = 6")
a = R4, R6, R8 (Insulation factor)

INSULATED RETURN AIR BOX W/COLLAR

CA60xxyyzza **w/Collar**
xx = 06-24 (Wdith)
yy = 06-24 (Length)
zz = 06-20 (Collar diameter)
a = R4, R6, R8 (Ductboard Insulation factor)

INSULATED STACKHEAD, RETURN AIR

SX76xxyyaabbg
xx = 14, 16, 20, 25 (Wall register width)
yy = 20, 24, 25 (Wall register height)
aa = 14, 16, 20, 25 (Floor opening width)
bb = 10, 12 (Floor opening length)
g = R4, R6, R8 (Insulation factor)

All insulated products, except ceiling boxes, measure OUTSIDE metal dimensions and DO NOT consider insulation thickness.
**Example:** 16x20x48 R8 insulated plenum has a 12x16 air channel.

ALUMINUM PRODUCTS

ALUMINUM PIPE
AP01xxyy
xx = 03-18 (Diameter)
yy = 24, 48, 60 (Length)

ALUMINUM ELBOW
AX53xx
xx = 03-16 (Diameter)

ALUMINUM ANGLE
AX50xx
xx = 03-16 (Diameter)

ALUMINUM LONG RADIUS ELBOW
AX54xx
xx = 03-16 (Diameter)
Use in dryer venting applications

ALUMINUM COLLAR
AX10xx **No Crimp**
AX11xx **Crimped**
xx = 04-12 (Diameter)

ALUMINUM LONG COLLAR
AX12xx
xx = 04-12 (Diameter)

ALUMINUM REDUCER
AX41xxyy
xx = 04-16 (Larger diameter)
yy = 03-14 (Smaller diameter)

ALUMINUM TRIM COLLAR
AX09xx
xx = 04-12 (Diameter)

ALUMINUM RAIN CAP
AX28xx
AX28xx**S w/screen**
xx = 04-12 (Diameter)

ALUMINUM TEE
AX70xx
xx = 04-16 (Diameter)

BLACK STEEL PRODUCTS

BLACK PIPE
BP01xxyy
xx = 04-14 (Diameter)
yy = 12, 24 (Length)

BLACK DRAWBAND
BX01xx
xx = 03-14 (Diameter)

BLACK CAP REDUCER
BX23xxyy **No Crimp**
BX24xxyy **Crimped**
xx = 04-06   (Smaller Diameter, Crimp)
yy = 06-08   (Larger Diameter)

BLACK TAPERED REDUCER
BX40xxyy **No Crimp**
BX41xxyy **Crimped**
xx = 03-09   (Smaller Diameter, Crimp)
yy = 04-12   (Larger Diameter)

BLACK TRIM COLLAR
BX10xx
xx = 04-14 (Diameter)

BLACK CAP
BX21xx **No Crimp**
BX22xx **Crimped**
xx = 04-14 (Diameter)

BLACK TAPERED INCREASER

BX43xxyy **Crimp**
xx = 03-09   (Smaller Diameter)
yy = 04-12   (Larger Diameter, Crimp)

BLACK ANGLE

BX50xx
xx = 06-14 (Diameter)

BLACK ELBOW

BX53xx
xx = 04-14 (Diameter)

BLACK TEE

BX70xx
xx = 04-14 (Diameter)

STAINLESS PRODUCTS

ROUND STAINLESS STEEL PIPE

NP01xxyy
xx = 16-35 (Diameter)
yy = 12-36 (Length)
Hammer Lock

STAINLESS STEEL TRIM COLLAR

NX10xx
xx = 04-16 (Diameter)

STAINLESS STEEL RAIN CAP

NX28xx
xx = 03-16 (Diameter)

STAINLESS STEEL ADJ. ELBOW

NX53xx
xx = 03-24 (Diameter)

STAINLESS STEEL START COLLAR

NX11xx **Crimp**
xx = 04-18 (Diameter)

STAINLESS TAPERED REDUCER

NX41xxyy **No Crimp**
xx = 03-14 (Smaller Diameter)
yy = 04-18 (Larger Diameter)

STAINLESS STEEL CONNECTOR

NX58xx
xx = 06-08 (Diameter)

STAINLESS STEEL DRAWBAND

NX01xx
xx = 03-12 (Diameter)

STAINLESS STEEL CAP

NX21xx **Crimp**
xx = 03-14 (Diameter)

STAINLESS STEEL ADJ. ANGLE

NX50xx
xx = 03-20 (Diameter)

STAINLESS STEEL TEE

NX70xx
xx = 03-18 (Diameter)
All branches equal size

STAINLESS STEEL SPECS
Standard 304 Grade,
24GA Stainless

STEEL SHEETS

GALVANIZED STEEL SHEETS

GS01xxyyyzz
GS01xxyyyzz **Beaded**
Specify G30, G60, or G90
G30 Standard
Beaded not available in all locations

STAINLESS STEEL SHEETS

NS01xxyyyzz
36"W only
zz = 24 or 26 (gauge only)

BLACK STEEL SHEETS

BS01xxyyyzz
zz = 24 (gauge only)

PVC COATED STEEL SHEETS

VS01xxyyyzz
zz = 26 or 24 only (gauge)

ALUMINUM SHEETS

AS01xxyyyzz

xx = 24, 36, 48 (Width)
yyy = 096, 120   (Length)
zz = 30, 28, 26, 24, (GA) unless specified
Call for latest availability and pricing

Lukjan offers flat sheets as a convenience to its customers and will be happy to ship these with a stock order including other prefabricated sheet metal products. Minimum order is 25 sheets per type (26GA - 4x8, etc.) A 10% charge will be added for orders listing sheets only.

MISCELLANEOUS

LUKJAN PRODUCT CATALOG

LC01
Specify quantity
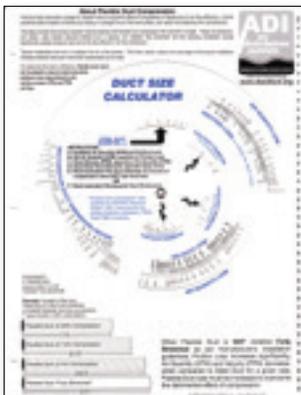
DUCT SIZING CALCULATOR

LC02
Specify quantity

GALVANIZED ROOF FLASHING

EX20xxzz
xx = 03-34 (Diameter)
zz = 22, 24, 26 (GA)
Standard is Pitched
Options: TC (Tall Cone)

GALVANIZED DRAWBAND

RX01xx
xx = 03-20 (Diameter)

GALVANIZED TRIM COLLAR

RX09xx
xx = 03-36 (Inner Diameter)
26GA sizes 3"-22", 24GA 24"-36"

GALVANIZED CHIMNEY THIMBLE

RX05xx
xx = 03-12 (Diameter)

WELDED CONDENSING UNIT BRACKET

EX40xxyy
12 x 34, 12 x 42, 18 x 42
Rated at 800 lbs. when properly secured

GALVANIZED RAIN CAP

RX28xx
RX28xx**S** w/screen
xx = 03-36 (Diameter)
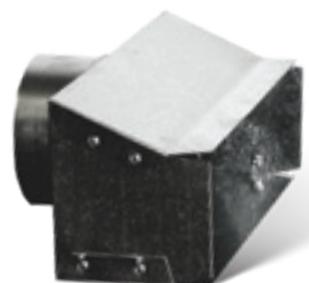
RANGE HOOD

SX86xxyyzz
xx = 03 (Range Hood width)
yy = 10 (Range Hood length)
zz = 04-07 (Diameter)

CUSTOM PRODUCTS AND SOLUTIONS

Lukjan has extensive manufacturing capabilities available and can help design and build custom products and solutions for any job. Whether it's new home construction, retrofit or light commercial applications, Lukjan can build quality sheet metal products and develop solutions that can save your customers custom fabrication costs, setup and installation time thereby giving them a competitive edge. Call us with your ideas and challenges and we'll see if we can develop a solution tailored for your market.

STEEL INFORMATION

Galvanized

Hot-dipped galvanized commercial steel is carbon steel sheet coated with zinc on two sides by the continuous hot-dipped process. This process results in a layer of zinc on each side of the steel sheet that is tightly adhering to the steel thru the formation of an iron-zinc alloy bonding layer that is formed by a diffusion process while the heated steel strip is in contact with the molten zinc. The galvanized coating is essentially pure zinc with trace amounts of aluminum (0.20 – 0.30%). The aluminum is added to improve the adhesion process between the zinc coating and the steel substrate.

Coating Weights are specified as G30, G60 and G90 and represent zinc weight (mass) for both sides of the galvanized sheet. G30 = 0.30 oz/ft^2, G60 = 0.60oz/ft^2 and G90 = 0.90 oz/ft^2. G30 is the most commonly used for residential HVAC and G90 used primarily in commercial applications.

Galvanneal

Galvanneal is similar to Galvanized in that they are both made by the hot-dip coating process. The main difference in the production process is that, to make a galvannealed coating, the strip is further heated by passing it through a furnace directly above the coating bath. By heating to approximately 1000 to 1050°F (538 to 565°C) and holding the strip at this temperature for a specific amount of time, the zinc coating alloys with iron by diffusion between the molten zinc and iron from the steel strip. The result is that the final product has a coating that is an alloy of approximately 90% zinc and 10% iron. The final iron concentration depends on the heating cycle since the total amount of diffusion is a function of the time/temperature cycle. One of the primary attributes of the galvannealed coating is that the surface accepts paint very readily and the zinc-iron alloy coating can be welded more easily than galvanized and the coating is harder than a galvanized coating and is thus more resistant to scratching and manufacturing damage.

Common Coating Weights are designated as A25, A40 and A60. (A25 = 0.25 oz/ft^2 both sides)

Galvalume

Galvalume steel is carbon steel coated with an aluminum zinc-alloy. The typical composition of the coating is 55% aluminum and 45% zinc. The coating is applied to the base metal in a continuous hot dip coating method. Galvalume is a product of choice for most agricultural, commercial, industrial and rural applications and thus not as economical for residential HVAC applications.. Under typical corrosive conditions, the coating generally will last much longer then a Galvanized coating of comparable thickness. Galvalume is two to four times as corrosion resistant as G 90 coated steel in outdoor marine, rural, and industrial environments. Galvalume will maintain its bright appearance and reflectivity in long-term service at temperatures up to 600 degrees Fahrenheit. The aluminum-zinc alloy coating provides excellent atmospheric corrosion resistance in a wide range of environments under many diverse conditions. The alloy coating of aluminum and zinc gives a combination of long-term corrosion resistance and galvanic protection at scratches and cut edges. Galvalume sheet can be arc welded with the shielded metal-arc and gas metal-arc processes.

Coating Weights are defined as AZ-50, AZ-55 and AZ-60. (AZ55 = 0.55 oz/ft^2 both sides)

Stainless Steel

Stainless Steels are iron-base alloys containing Chromium. Stainless steels usually contain less than 30% Cr and more than 50% Fe. Stainless Steel is not a single metal but an alloy that is a material made from two or more separate elements alloyed or "melted" together. They attain their stainless characteristics because of the formation of an invisible and adherent chromium-rich oxide surface film. This oxide establishes on the surface and heals itself in the presence of oxygen. Corrosion resistance and mechanical properties are commonly the principal factors in selecting a grade of stainless steel for a given application.

Type 304 (18-8) is an austenitic steel possessing a minimum of 18% chromium and 8% nickel, combined with a maximum of 0.08% carbon. The 18% minimum chromium content provides corrosion and oxidation resistance. Type 304, or one of its modifications, is the material specified more than 50% of the time whenever a stainless steel is used.

Type 316 is also austenitic, non-magnetic, and thermally non-hardenable stainless steel like Type 304. What distinguishes Type 316 from Type 304 is the addition of molybdenum up to a maximum of 3%. The molybdenum gives 316 better overall corrosion resistant properties than Grade 304, particularly higher resistance to pitting and crevice corrosion in chloride environments.

AgION Anti-microbial Coated Steel

AgION is an anti-microbial compound containing as the name implies, silver IONs that react with moisture to inhibit mold and mildew growth. When the silver ions come into contact with bacteria and other microbes, their chemical interaction disrupts electron transfer and respiration, suppressing microbe growth on the product. The AgION anti-microbial compound is blended

into a paint system, which is applied to the steel using a continuous-roll coil coating process. The coating is cured at more than 400°F, eliminating VOC (volatile organic compound) emissions.

The compound can be applied to either carbon or stainless steel, coated on one or both sides. The AgION antimicrobial compound has been registered with the Environmental Protection Agency (EPA) for use in heating, ventilating and air conditioning components.

PVC Coated Steel

Polyvinyl chloride (PVC)-coated steel is used for fume exhaust, underslab, and underground duct systems. The PVC coating is applied to both sides of the steel with the exterior typically 4 mil thickness to provide maximum corrosion protection and an interior coating of one mil.

Black Coated Steel

Black coated steel is a standard 24GA steel with a high temperature, scratch resistant black paint coating one side. Various coatings exist but all provide added protection of the steel surface and some resistance to discoloration in higher heat applications.

Aluminum

Aluminum Alloy 3003-H14 is an excellent metal for general sheet metal work where only moderate strength but superior corrosion resistance is required. The terminology for the thickness of aluminum sheets does not use a Gauge number – like Galvanized or other carbon steel – it is instead requested by its' actual decimal thickness in inches. There are many alloys of Aluminum; 3003 is widely used as a general-purpose alloy for moderate-strength applications requiring good workability. The density of aluminum is approximately 1/3 that of galvanized steel.

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