A primary seal made of polyisobutylene is used for its high resistance against ultraviolet rays and is combined to a secondary seal made of high quality silicone.

1. The tubular profile contains a highly effective drying agent, providing moisture-free air space between glass panels.
2. The unique hollow-chambered louveres provide maximum rigidity and strength and maintain the parallel alignment of the blades for utmost privacy and light control.
3. The 2 1/2" (63.5mm) dehydrated airspace reduces noise, providing sound attenuation superior to insulating glass units with standard airspaces. 2" (50.8mm) airspace available.
4. All pivots, pinions, and racks are made of u.v. stabilized material to ensure dimensional stability, durability, never needing lubrication.
5. Various glazing products and polycarbonates are available according to applications and project needs.
6. The rack is made of corrosion-resistant aluminum.
7. The gear housing (for crank handles, knobs and motors) is mechanically attached to the frame.
8. The fingertip crank handles, thumbwheels and knobs operators are made of long-lasting plastic, zinc, brass or aluminum, easy to rotate and requiring no maintenance.
ARCHITECTURAL
Unicel Architectural Corp.
2155 Fernand-Lafontaine
Longueuil • Québec • J4G 2J4 • Canada

T: 800.668.1580 | 450.670.6844 • F: 866.496.2628 | 450.670.7144
E: unicel@unicelarchitectural.com • www.unicelarchitectural.com

VC 1.2.1

VISION CONTROL®
HANDLE / KNOB POSITION

REFER TO STANDARD GLASS SIZES FOR HEIGHTS ON PAGE VC 1.6
UNICELL ARCHITECTURAL

VISION CONTROL®
THUMBWHEEL POSITION

LOUVERS BETWEEN INSULATING GLASS
MANUALLY OPERATED
OPTION: ELECTRICALLY OPERATED

FULL THUMBWHEEL OPERATOR
(VARIABLE DIAMETER)
- WHITE ALUMINUM
- GRAY ALUMINUM
- BLACK POLYMER

ALUMINUM FINISH:
- STANDARD DURACRON
  -GLOSSY WHITE K-1285
  - METALLIC GRAY K-20794

AIR SPACE
50.8mm

* SEALANT REVEAL
AT PERIMETER

OPTIONAL OPERATORS:

FAN-SHAPED THUMBWHEEL OPERATOR
(VARIABLE DIAMETER)
- WHITE ALUMINUM
- GRAY ALUMINUM
- BLACK POLYMER

TYPICAL DETAIL

STANDARD HEIGHT

B

NON-STANDARD HEIGHT

B

NON-STANDARD NOT AVAILABLE

B

REFER TO STANDARD GLASS SIZES FOR HEIGHTS ON PAGE VC 1.6

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T: 800.668.1580 | 450.670.6844 • F: 866.496.2628 | 450.670.7144
E: unicel@unicelarchitectural.com • www.unicelarchitectural.com
- **VISION CONTROL® GLASS PANELS ARE MADE WITH INTERLOCKING BLADES. OFFERING TOTAL PRIVACY AND OPTIMAL LIGHT CONTROL WHEN CLOSED.**

- **GLASS SIZE LIMITATIONS AND THICKNESSES TO BE DETERMINED BY UNICEL’S ENGINEERING DEPARTMENT.**

- **TWO AIRSPACE THICKNESSES ARE AVAILABLE: 2” AND 2 1/2” (50.8mm AND 63.5mm)**

- **THREE BLADE THICKNESSES ARE AVAILABLE: 1/4”, 3/8” AND 1/2” (6.4mm, 9.5mm AND 12.7mm)**

---

**VISION CONTROL®**

**BLADE TYPES, AIRSPACES AND MINIMUM / MAXIMUM SIZES**

- **MINIMUM GLASS SIZE**
  - **MINIMUM WIDTH**: 3 3/4 in. = 95.3 mm
  - **MAXIMUM GLASS SIZE**
    - **MAXIMUM AREA**: 5810 in.² = 3.75 m²
    - **MAXIMUM WIDTH**: 48 in. = 1.219 m

- **MINIMUM GLASS SIZE**
  - **MINIMUM WIDTH**: 3 3/4 in. = 95.3 mm
  - **MAXIMUM GLASS SIZE**
    - **MAXIMUM AREA**: 4640 in.² = 2.99 m²
    - **MAXIMUM WIDTH**: 58 in. = 1.473 m

- **MINIMUM GLASS SIZE**
  - **MINIMUM WIDTH**: 3 3/4 in. = 95.3 mm
  - **MAXIMUM GLASS SIZE**
    - **MAXIMUM AREA**: 4080 in.² = 2.63 m²
    - **MAXIMUM WIDTH**: 68 in. = 1.727 m

*If required sizes are outside of feasibility range, please contact Unicel for special arrangements.*
MIDDLE INNER SPACER FOR INTERMEDIATE LOUVER SUPPORT

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<tr>
<th>MAXIMUM GLASS WIDTH</th>
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<tr>
<td>136&quot; (3454mm)</td>
<td>1/2&quot; (12.7mm)</td>
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MAXIMUM GLASS WIDTH

ELEVATION

DETAIL

VISION CONTROL® PANEL

MIDDLE INNER SPACER

VISION CONTROL® PANELL

MIDDLE INNER SPACER FOR INTERMEDIATE LOUVER SUPPORT

GEAR HOUSING

2 1/8" x 2 9/32" (54mm x 57.9mm)

FOLDABLE ZINC CRANK HANDLE
RIGHT-ANGLED TRIANGLE

GEAR HOUSING
2 1/8'' X 2 9/32''
(54mm X 57.9mm)

TRAPEZOIDAL

TYPICAL DETAIL

VISION CONTROL®
RIGHT-ANGLED TRIANGLE
AND TRAPEZOIDAL SHAPE
## STANDARD GLASS SIZES FOR HEIGHTS*

*(FOR HORIZONTAL LOUVERS ONLY)**

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*NON-STANDARD GLASS HEIGHTS ARE ALSO AVAILABLE BY ADDING SERIES OF 3/16" (4.76mm) INCREMENTS TO ANY GIVEN STANDARD HEIGHT (SEE PAGE VC 1.2.1 & 1.2.2)

**FOR VERTICAL LOUVERS, THIS CHART CAN BE INTERPRETED AS STANDARD GLASS SIZES FOR WIDTHS**
SOUND CONTROL GLASS

VISION CONTROL® is available with various glass types and thicknesses with the option of 2" (50.8mm) or 2 1/2" (63.5mm) airspace, offering exceptional sound damping characteristics.

EXAMPLES OF STC RATINGS WITH VARYING GLASS CONFIGURATIONS

<table>
<thead>
<tr>
<th>GLASS LITE X</th>
<th>AIRSPACE</th>
<th>GLASS LITE Y</th>
<th>STC (ESTIMATED)</th>
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<td>2&quot; (50.8mm)</td>
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<td>1/4&quot; (6mm)</td>
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<tr>
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<td>2&quot; (50.8mm)</td>
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NOTE:
All data were estimated (derived from tested samples comparable in configuration to those above) and are not guaranteed for all samples or applications. All data should be verified via testing the actual window assembly to ascertain the effects of window frames on total window system sound transmission loss.
VISION CONTROL®
ACCESSORIES

EXTENSION POLE
FOR OUT-OF-REACH VISION CONTROL® UNITS

GLASS STOPS

THUMBWHEEL COVER

SNAP-ON COVER

PSYCHIATRIC APPLICATION

HOLE (2) 9/64" (3.6mm) Ø COUNTERSINK (HS #4)

STANDARD FINISHES

DURACRON WHITE K-1285
DURACRON GRAY K-20794
CLEAR ANODIZED (CLASS II)

* OTHER FINISHES AVAILABLE UPON REQUEST

VISION CONTROL®

ACCESSORIES
THUMBWHEEL OPERABLE ON ONE OR BOTH SIDE(S)

ACCESSIBLE ON BOTH SIDES

ACCESSIBLE ON ONE SIDE

VISION CONTROL® INTERIOR WALL HOLLOW METAL FRAME

Unicel Architectural Corp.
2155 Fernand-Lafontaine
Longueuil • Québec • J4G 2J4 • Canada

T: 800.668.1580 • 450.670.6844 • F: 866.496.2628 • 450.670.7144
E: unicel@unicelarchitectural.com • www.unicelarchitectural.com

VC 2.1.2

2020
VISION CONTROL®
INTERIOR WALL
SOUND OR SMOKE BARRIER

DOUBLE FAN-SHAPED THUMBWHEEL OPERABLE ON BOTH SIDES

NOTE:
ROTATION LIMITED TO APPROX. 115° INSTEAD OF 180°

± 115°

LOUVERS COME UP FROM OPERABLE SIDE

SOUND OR SMOKE BARRIER BY OTHERS

VISION CONTROL® PANEL

FAN-SHAPED THUMBWHEEL (VARIABLE DIAMETER)

9.5mm
3/8"

ALUMINUM SNAP-ON GLASS STOPS

BY UNICEL SETTING BLOCK

BY OTHERS STEEL FRAME

BY OTHERS

DETAIL

DETAIL

A

B

STANDARD FINISHES*

DURACRON WHITE K-1285

DURACRON GRAY K-20794

CLEAR ANODIZED (CLASS II)

LOUVERS GLASS STOPS

✓ ✓

✓ ✓

✓ ✓

* OTHER FINISHES AVAILABLE UPON REQUEST.
VISION CONTROL®
INTERIOR WALL
CORNER CONFIGURATIONS

90° ANGLE

FINISHES STANDARD
DURACRON WHITE K-1285
DURACRON GRAY K-20794
CLEAR ANODIZED (CLASS II)

* OTHER FINISHES AVAILABLE UPON REQUEST.

BUTT-GLAZED WITH CORNER BRAKE METAL

OUTSIDE & INSIDE 0.080" (2mm)
THICK BREAK METAL CLOSURE BY UNICEL

GLAZING TAPE 1/16" (1.6mm)
TYPICAL BY OTHERS

3M TAPE 1/16" (1.6mm)
TYPICAL BY OTHERS

FAN-SHAPED THUMBWHEEL OPERATOR ACCESSIBLE ON ONE SIDE ONLY (VARIABLE DIAMETER)
ALSO AVAILABLE: FULL THUMBWHEEL OPERATOR ACCESSIBLE ON BOTH SIDES

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2020
VISION CONTROL®
INTERIOR WALL
CORNER CONFIGURATIONS

BUTT-GLAZED WITHOUT CORNER BRAKE METAL

VIEW

CERAMIC FRIT ON INSIDE FACE OF GLASS (COLOR TO BE DETERMINED)

VISION CONTROL® PANEL

FOLDABLE ZINC CRANK HANDLE (OPTIONAL)

GLAZING TAPE BY OTHERS

GEAR HOUSING

FOLDABLE ZINC CRANK HANDLE (REFER TO PAGE VC 1.2.1 FOR OPTIONAL OPERATORS)

ALUMINUM SNAP-ON GLASS STOPS BY UNICEL

SILICONE JOINTS ON CORNER GLASS BY OTHERS

HOLLOW METAL FRAME BY OTHERS

BUTT-GLAZED WITH CORNER BRAKE METAL

VISION CONTROL® PANEL

ALUMINUM SNAP-ON GLASS STOPS BY UNICEL

FULL THUMBWHEEL OPERATOR ACCESSIBLE ON BOTH SIDES (VARIABLE DIAMETER)

ALSO AVAILABLE: FAN-SHAPED THUMBWHEEL OPERATOR ACCESSIBLE ON ONE SIDE

VISION CONTROL® PANEL

ALUMINUM SNAP-ON GLASS STOPS BY UNICEL

FOLDABLE ZINC CRANK HANDLE (OPTIONAL)

GLAZING TAPE BY OTHERS

GEAR HOUSING

CERAMIC FRIT ON INSIDE FACE OF GLASS (COLOR TO BE DETERMINED)

VISION CONTROL® PANEL

FOLDABLE ZINC CRANK HANDLE (OPTIONAL)

GLAZING TAPE BY OTHERS

GEAR HOUSING

FOLDABLE ZINC CRANK HANDLE (REFER TO PAGE VC 1.2.1 FOR OPTIONAL OPERATORS)

ALUMINUM SNAP-ON GLASS STOPS BY UNICEL

SILICONE JOINTS ON CORNER GLASS BY OTHERS

HOLLOW METAL FRAME BY OTHERS
VISION CONTROL®
INTERIOR WALL
CORNER CONFIGURATIONS

VARIABLE ANGLE

BUTT-GLAZED WITH CORNER BRAKE METAL

OUTSIDE & INSIDE 0.080" (2mm) THICK BREAK METAL CLOSURE BY UNICEL

HOLLOW METAL FRAME BY OTHERS

RIGID INSULATOR (IF REQUIRED) BY OTHERS

VISION CONTROL® PANEL
3M TAPE 1/16" (1.6mm) TYPICAL BY OTHERS

FAN-SHAPED THUMBWHEEL OPERATOR ACCESSIBLE ON ONE SIDE ONLY (VARIABLE DIAMETER) ALSO AVAILABLE: FULL THUMBWHEEL OPERATOR ACCESSIBLE ON BOTH SIDES

DETAIL INTERIOR

FINISHES STANDARD* LOUVERS GLASS STOPS BREAK METAL
DURACRON WHITE K-1285 ✓ ✓ ✓
DURACRON GRAY K-20704 ✓ ✓ ✓
CLEAR ANODIZED (CLASS II) ✓ ✓ ✓

* OTHER FINISHES AVAILABLE UPON REQUEST.

FINISHES STANDARD* LOUVERS GLASS STOPS BREAK METAL
DURACRON WHITE K-1285 ✓ ✓ ✓
DURACRON GRAY K-20704 ✓ ✓ ✓
CLEAR ANODIZED (CLASS II) ✓ ✓ ✓

* OTHER FINISHES AVAILABLE UPON REQUEST.

FINISHES STANDARD* LOUVERS GLASS STOPS BREAK METAL
DURACRON WHITE K-1285 ✓ ✓ ✓
DURACRON GRAY K-20704 ✓ ✓ ✓
CLEAR ANODIZED (CLASS II) ✓ ✓ ✓

* OTHER FINISHES AVAILABLE UPON REQUEST.
VISION CONTROL®
INTERIOR WALL
CORNER CONFIGURATIONS

BUTT-GLAZED WITHOUT CORNER BRAKE METAL

VARIANT CORNER GLASS

VISION CONTROL® PANEL

GLAZING TAPE

BY OTHERS

CERAMIC FRIT ON INSIDE FACE OF GLASS
(COLOR TO BE DETERMINED)

ALUMINUM SNAP-ON GLASS STOPS
BY UNICEL

HOLLOW METAL FRAME
BY OTHERS

FOLDABLE ZINC CRANK HANDLE
(REFERENCE TO PAGE VC 1.2.1 FOR OPTIONAL OPERATORS)

FOLDABLE ZINC CRANK HANDLE
(OPTIONAL)

GEAR HOUSING

CLEARANCE REQUIRED

CORNER POST

VARIANT CORNER GLASS

VISION CONTROL® PANEL

GLAZING TAPE

BY OTHERS

FULL THUMBWHEEL
OPERATOR ACCESSIBLE ON BOTH SIDES
(VARIABLE DIAMETER)

ALSO AVAILABLE: FAN-SHAPED THUMBWHEEL
OPERATOR ACCESSIBLE ON ONE SIDE

HOLLOW METAL FRAME
BY OTHERS

HOLLOW METAL FRAME
BY OTHERS

FOLDABLE ZINC CRANK HANDLE
(REFERENCE TO PAGE VC 1.2.1 FOR OPTIONAL OPERATORS)
STOREFRONT SYSTEM

OPERABLE WINDOW
EXISTING CURTAIN WALL SYSTEM

CURTAIN WALL ADAPTER

OFFSET TRIPLE GLAZED

VC 2.2.2
VISION CONTROL®
EXTERIOR WALL
PSYCHIATRIC APPLICATION

EXISTING WALL

CURTAIN WALL

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AAMA 501.8-TESTED FOR 2000 FT-LB HUMAN IMPACTS

VISION CONTROL® PANEL
GEAR HOUSING
ROUND PLATE
BRASS LIGATURE-RESISTANT KNOB (REFER TO PAGE VC 1.2.1 FOR OPTIONAL OPERATORS)
VISION CONTROL® PANEL
1/4" (6mm) CLEAR TEMPERED GLASS
1/2" (12.7mm) CLEAR POLYCARBONATE
STRUCTURAL SILICONE JOINT
NORTON TAPE THERMALBOND 1/4" X 3/4"
WELDED PERIMETER ALUMINUM SNAP-ON GLASS STOP BY UNICEL
STRUCTURAL SILICONE JOINT SETTING BLOCK BY OTHERS
ALUMINUM SNAP-ON GLASS STOP BY UNICEL
VISION CONTROL® PANEL
GEAR HOUSING
ROUND PLATE
BRASS LIGATURE-RESISTANT KNOB (REFER TO PAGE VC 1.2.1 FOR OPTIONAL OPERATORS)
1/4" (6mm) CLEAR TEMPERED GLASS
1/2" (12.7mm) CLEAR POLYCARBONATE
STRUCTURAL SILICONE JOINT
UNICEL'S CURTAIN WALL (CW) SYSTEM SEE SECTION CURTAIN WALL (CW) OF UNICEL'S CORPORATE CATALOG

AAMA 501.8-TESTED FOR 2000 FT-LB HUMAN IMPACTS

VISION CONTROL® PANEL
GEAR HOUSING
ROUND PLATE
BRASS LIGATURE-RESISTANT KNOB (REFER TO PAGE VC 1.2.1 FOR OPTIONAL OPERATORS)
1/4" (6mm) CLEAR TEMPERED GLASS
1/2" (12.7mm) CLEAR POLYCARBONATE
STRUCTURAL SILICONE JOINT
UNICEL'S CURTAIN WALL (CW) SYSTEM SEE SECTION CURTAIN WALL (CW) OF UNICEL'S CORPORATE CATALOG
CRANK HANDLE OPERABLE ON ONE OR BOTH SIDE(S)

VISION CONTROL® FURNISHED FACTORY-GLAZED IN UNICEL'S ALUMINUM TRIMS

VISION CONTROL® PANEL

FOLDABLE ZINC CRANK HANDLE

OVAL PLATE

SETTING BLOCK BY UNICEL

GEAR HOUSING

DOOR BY OTHERS

COEX GLAZING

SNAP-ON TRIM

STANDARD FINISHES*

DURACRON WHITE K-1285
DURACRON GRAY K-20794
CLEAR ANODIZED (CLASS II)

LOUVERS

DOOR TRIMS

OPTIONAL OPERATORS:

31/32" (24.6mm) Ø BRASS LIGATURE-RESISTANT KNOB (PAINTED WHITE OR GRAY)

3/4" (19.1mm) Ø ALUMINUM KNOB

- WHITE K-1285
- GRAY K-20794
- CUSTOM COLORS

* OTHER FINISHES AVAILABLE UPON REQUEST.

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VC 3.1.1
VISION CONTROL® DOOR CONFIGURATION

THUMBWHEEL OPERABLE ON BOTH SIDES
VISION CONTROL® FURNISHED FACTORY-GLAZED IN UNICEL’S ALUMINUM TRIMS

STANDARD FINISHES*

<table>
<thead>
<tr>
<th></th>
<th>LOUVERS</th>
<th>DOOR TRIMS</th>
</tr>
</thead>
<tbody>
<tr>
<td>DURACRON WHITE K-1285</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>DURACRON GRAY K-20794</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>CLEAR ANODIZED (CLASS II)</td>
<td>✔️</td>
<td>✔️</td>
</tr>
</tbody>
</table>

* OTHER FINISHES AVAILABLE UPON REQUEST.
VISION CONTROL®
DOOR CONFIGURATION

FAN-SHAPED THUMBWHEEL OPERABLE ON ONE SIDE
VISION CONTROL® FURNISHED FACTORY-GLAZED IN UNICEL’S ALUMINUM TRIMS

NOTE:
ROTATION LIMITED TO APPROX. 115° INSTEAD OF 180°
± 115°

LOUVERS COME DOWN FROM OPERABLE SIDE

STANDARD FINISHES*  LOUVERS  DOOR TRIMS
DURACRON WHITE K-1285  
DURACRON GRAY K-20794  
CLEAR ANODIZED (CLASS II)  

* OTHER FINISHES AVAILABLE UPON REQUEST.

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VC 3.1.3
VISION CONTROL® DOOR CONFIGURATION

SUGGESTED CUSTOM DOOR TRIMS BY OTHERS

OPTIONAL OPERATORS:

- 3/4" (19.1mm) Ø BRASS LIGATURE-RESISTANT KNOB (PAINTED WHITE OR GRAY)
- 3/4" (19.1mm) Ø ALUMINUM KNOB

GEAR HOUSING
VISION CONTROL® PANEL
GLAZING TAPE BY OTHERS
FOLDABLE ZINC CRANK HANDLE (OPTIONAL)

VISION CONTROL® PANEL
GLAZING TAPE BY OTHERS
FOLDABLE ZINC CRANK HANDLE (OPTIONAL)

NOTE:
ROTATION LIMITED TO APPROX. 115° INSTEAD OF 180°

LOUVERS COME DOWN FROM OPERABLE SIDE
FAN-SHAPED THUMBWHEEL OPERABLE ON ONE SIDE ONLY

VISION CONTROL® PANEL
GLAZING TAPE BY OTHERS
FOLDABLE ZINC CRANK HANDLE (OPTIONAL)

VISION CONTROL® PANEL
GLAZING TAPE BY OTHERS
FOLDABLE ZINC CRANK HANDLE (OPTIONAL)
SOMFY® MOTOR

1- WORM GEAR SHAFT
2- GEARING WHEEL
3- GEAR HOUSING 2 1/8" x 2 9/32" (54mm x 57.9mm)
4- PLASTIC COVER & SCREW #5-40 x 1/2" (12.7mm)
5- FLEXIBLE CABLE
6- SOMFY® MOTOR
7- VISION CONTROL® PANEL

CARACTÉRISTIQUES DU MOTEUR:
- MODEL: SOMFY®
- APPROX. DIM.: 29/32" x 1 7/32" (23.1mm x 31.2mm)
- AMP: 1.2
- VOLTS: 12 DC
- RPM: 68
- RTS: 433.42 MHZ

MOTOR TYPE TO BE DETERMINED BY UNICEL’S ENGINEERING DEPARTMENT
NOTE: REFER TO APPROVED SHOP DRAWINGS FOR MORE INFORMATION
SOMFY® MOTOR
UNLIMITED NUMBER OF VISION CONTROL® PANELS (ONE MOTOR PER UNIT)

1- SOMFY® MOTOR
2- GEAR HOUSING 2 1/8" x 2 9/32"  
   (54mm x 57.9mm)
3- FLEXIBLE CABLE
4- VISION CONTROL® PANEL

VISION CONTROL® PANEL

WIRING DIAGRAM FOR 12 VOLT DC MOTOR

- MODEL: SOMFY®
- APPROX. DIM.: 29/32" x 1 7/32"  
   (23.1mm x 31.2mm)
- AMP: 1.2
- VOLTS: 12 DC
- RPM: 68
- RTS: 433.42 MHZ

12 VOLT POWER SUPPLY

VISION CONTROL® PANEL

MOTOR
VISION CONTROL® MOTORIZATION

SOMFY® MOTOR

MOTOR SPECIFICATIONS:
- MODEL: SOMFY®
- APPROX. DIM.: 29/32" x 1 7/32" (23.1mm x 31.2mm)
- AMP: 1.2
- VOLTS: 12 DC
- RPM: 88
- RTS: 433.42 MHZ

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1- WORM GEAR SHAFT
2- GEARING WHEEL
3- GEAR HOUSING 2 1/8" x 2 9/32" (54mm x 57.9mm)
4- PLASTIC COVER & SCREW #5-40 x 1/2" (12.7mm)
5- FLEXIBLE CABLE
6- CORNER DRIVE
7- BALDOR MOTOR
8- RIGID SHAFT 5/8" Ø (15.9mm)
9- VISION CONTROL® PANEL
10- SET SCREW #10-24 x 3/16" (4.8mm)

MOTOR SPECIFICATIONS:
- MODEL: BALDOR
- APPROX. DIM.: 3 3/4" x 8 1/8"
  (95.3mm x 206.4mm)
- AMP: 1
- VOLTS: 120 AC
- RPM: 163
- HZ: 60
- PHASE: 1
- TORQUE 28.5 IN-LB

MOTOR TYPE TO BE DETERMINED BY UNICEL'S ENGINEERING DEPARTMENT

NOTE: REFER TO APPROVED SHOP DRAWINGS FOR MORE INFORMATION
VISION CONTROL®
GROUPED MOTORIZATION
(WITH LIMIT SWITCH)

BALDOR MOTOR
MAXIMUM OF 12 VISION CONTROL® PANELS PER MOTOR (MAY VARY DEPENDING ON SIZES)

1- BALDOR MOTOR
2- CORNER DRIVE
3- GEAR HOUSING 2 1/8" x 2 9/32" (54mm x 57.9mm)
4- FLEXIBLE CABLE
5- RIGID SHAFT 5/8" Ø (15.9mm)
6- VISION CONTROL® PANEL
7- JUNCTION BOX
8- LIMIT SWITCH

WIRING DIAGRAM FOR 120 VOLT AC MOTOR WITH LIMIT SWITCH

MOTOR SPECIFICATIONS:
- MODEL: BALDOR
- APPROX. DIM.: 3 3/4" x 8 1/8" (95.3mm x 206.4mm)
-AMP: 1
-VOLTS: 120 AC
-RPM: 163
-HZ: 60
-PHASE: 1
-TORQUE 28.5 IN-LB

ELECTRICAL DIAGRAM

NOTES:
1- SWITCH SPDT SHOWN FOR ILLUSTRATION ONLY
2- LIMIT SWITCH SHOWN IN CLOSED POSITION
3- POWER TO THE #5 WIRE OPERATES UNIT INTO CLOSED POSITION
4- POWER TO THE #0 WIRE OPERATES UNIT INTO CLOSED POSITION

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VC 4.2.2

2020
**VISION CONTROL® GROUPED MOTORIZATION**

(WITHOUT LIMIT SWITCH)

**BALDOR MOTOR**

MAXIMUM OF 12 VISION CONTROL® PANELS PER MOTOR (MAY VARY DEPENDING ON SIZES)

1- BALDOR MOTOR
2- CORNER DRIVE
3- GEAR HOUSING 2 1/8" x 2 9/32" 
   (54mm x 57.9mm)
4- FLEXIBLE CABLE
5- RIGID SHAFT 5/8" Ø (15.9mm)
6- VISION CONTROL® PANEL
7- JUNCTION BOX

**WIRING DIAGRAM FOR 120 VOLT AC MOTOR WITHOUT LIMIT SWITCH**

MOTOR SPECIFICATIONS:
- MODEL: BALDOR
- APPROX. DIM.: 3 3/4" x 8 1/8" 
   (95.3mm x 206.4mm)
- AMP: 1
- VOLTS: 120 AC
- RPM: 163
- HZ: 60
- PHASE: 1
- TORQUE 28.5 IN-LB

ELECTRICAL DIAGRAM
**BALDOR MOTOR**
*(SUGGESTED DETAIL)*

**WITHOUT LIMIT SWITCH**

- BALDOR MOTOR
- CORNER DRIVE
- ALUMINUM TRACK

**WITH LIMIT SWITCH**

- BALDOR MOTOR
- LIMIT SWITCH
- CORNER DRIVE

**MOTOR SPECIFICATIONS:**
- **MODEL:** BALDOR
- **APPROX. DIM.:** 3 3/4" x 8 1/8" (95.3mm x 206.4mm)
- **AMP:** 1
- **VOLTS:** 120 AC
- **RPM:** 163
- **Hz:** 60
- **PHASE:** 1
- **TORQUE:** 28.5 IN-LB

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**VC 4.2.4**
PITTMAN MOTOR

1- WORM GEAR SHAFT
2- GEARING WHEEL
3- GEAR HOUSING 2 1/8" x 2 9/32" (54mm x 57.9mm)
4- PLASTIC COVER & SCREW #5-40 x 1/2" (12.7mm)
5- FLEXIBLE CABLE
6- CORNER DRIVE
7- PITTMAN MOTOR
8- RIGID SHAFT 5/8" Ø (15.9mm)
9- VISION CONTROL® PANEL
10- SET SCREW #10-24 x 3/16" (4.8mm)

MOTOR SPECIFICATIONS:
- MODEL: PITTMAN
- APPROX. DIM.: 2" x 3 5/8" (50.8mm x 92.1mm)
- AMP: 0.6
- VOLTS: 24 DC
- RPM: 160

MOTOR TYPE TO BE DETERMINED BY UNICEL'S ENGINEERING DEPARTMENT

NOTE: REFER TO APPROVED SHOP DRAWINGS FOR MORE INFORMATION
VISION CONTROL®
MOTORIZATION
(WITH LIMIT SWITCH)

PITTMAN MOTOR
MAXIMUM OF 4 VISION CONTROL® PANELS PER MOTOR (MAY VARY DEPENDING ON SIZES)

1- PITTMAN MOTOR
2- CORNER DRIVE
3- GEAR HOUSING 2 1/8” x 2 9/32” (54mm x 57.9mm)
4- FLEXIBLE CABLE
5- RIGID SHAFT 5/8” Ø (15.9mm)
6- VISION CONTROL® PANEL
7- JUNCTION BOX
8- LIMIT SWITCH

MOTOR SPECIFICATIONS:
- MODEL: PITTMAN
- APPROX. DIM.: 2” x 3 5/8” (50.8mm x 92.1mm)
- AMP: 0.6
- VOLTS: 24 DC
- RPM: 160

VISION CONTROL® PANEL

WIRING DIAGRAM FOR 24 VDC MOTOR WITH LIMIT SWITCH

ELECTRICAL DIAGRAM

DPDT MAINTAIN OR MOMENTARY SWITCH
VISION CONTROL® MOTORIZATION
(WITHOUT LIMIT SWITCH)

PITTMAN MOTOR
MAXIMUM OF 4 VISION CONTROL® PANELS PER MOTOR (MAY VARY DEPENDING ON SIZES)

WIRING DIAGRAM FOR 24 VDC MOTOR WITHOUT LIMIT SWITCH

MOTOR SPECIFICATIONS:
- MODEL: PITTMAN
- APPROX. DIM.: 2" x 3 5/8" (50.8mm x 92.1mm)
- AMP: 0.6
- VOLTS: 24 DC
- RPM: 160

ELECTRICAL DIAGRAM

VISION CONTROL® PANEL

24 VDC POWER SUPPLY
LOCATE THIS SUPPLY NEAR YOUR ELECTRICAL PANEL

120 - 220 V-AC

VISION CONTROL® PANEL

MOTOR

RED
BLACK

DPDT MOMENTARY SWITCH

24 VDC
BLACK
RED

STANDARD ELECTRIC BOX
FOR DPDT SWITCH

JUNCTION BOX

FL

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2020
PICTMAN MOTOR
(SUGGESTED DETAIL)

WITH LIMIT SWITCH

WITHOUT LIMIT SWITCH

VISION CONTROL® PANEL

GEAR HOUSING

FLEXIBLE CABLE

LAY-IN CEILING BY OTHERS

ALUMINUM SUPPORT

LIMIT SWITCH BOX

ALUMINUM TRACK

PITTMAN MOTOR

CORNER DRIVE

LAY-IN CEILING BY OTHERS

ALUMINUM SNAP-ON GLASS STOPS BY UNICEL

DETAIL INTERIOR WALL

VISION CONTROL® PANEL

GEAR HOUSING

FLEXIBLE CABLE

LAY-IN CEILING BY OTHERS

ALUMINUM SUPPORT

LIMIT SWITCH BOX

ALUMINUM TRACK

PITTMAN MOTOR

CORNER DRIVE

LAY-IN CEILING BY OTHERS

ALUMINUM SNAP-ON GLASS STOPS BY UNICEL

DETAIL INTERIOR WALL

MOTOR SPECIFICATIONS:
- MODEL: PITTMAN
- APPROX. DIM.: 2" x 3 5/8"
  (50.8mm x 92.1mm)
- AMP: 0.6
- VOLTS: 24 DC
- RPM: 160
VISION CONTROL®
MOTORIZATION APPLICATION

SKYLIGHT

VISION CONTROL® PANEL
FLEXIBLE CABLE
CORNER DRIVE
MOTOR
FLASHING
ALUMINUM PLATE
MEMBRANE

UNICEL'S SKYLIGHT FRAMING SYSTEM
- SEE SECTION SKYLIGHT (SK) OF UNICEL'S CORPORATE CATALOG

A DETAIL EXTERIOR
VISION CONTROL®
MOTORIZATION APPLICATION

SOLARIUM

BALDOR MOTOR
FLEXIBLE CABLE
GEAR HOUSING
VISION CONTROL® PANEL

VISION CONTROL® PANEL
BOÎTE D'ENGRENAJE
CRANK HANDLE

VISION CONTROL® PANEL
UNICEL'S SKYLIGHT (SK) SYSTEM
- SEE SECTION SKYLIGHT (SK) OF UNICEL'S CORPORATE CATALOG

DETAIL EXTERIOR
SLOPED GLAZING

1- MOTOR
2- CORNER DRIVE
3- GEAR HOUSING 2 1/8" x 2 9/32" (54mm x 57.9mm)
4- FLEXIBLE CABLE
5- RIGID SHAFT 5/8" Ø (15.9mm)
6- VISION CONTROL® PANEL
7- ALUMINUM SUPPORT
8- ALUMINUM STRUCTURE
9- SETTING BLOCK
**Storage Instructions**

A. In Crates

Crates must be kept upright, covered, ventilated and in a dry and safe location.

B. Loose Lots

Sealed units must be upright, on blocks and in a safe and dry location. Sealed units should not be stored in a stack, or in direct sunlight as heat build-up may cause breakage. Sealed units should have a base to provide support to all component lites of the unit so that individual lites will not slide out of alignment or out of square causing seal failure or breakage.

**Handling Instructions**

A. Extreme care must be taken when a unit is being moved. Edges and corners should be protected in order to prevent glass from fracturing. The use of a corner protector is suggested.

B. When moving Vision Control® sealed glass panels, always do so as indicated below, flat or the gear housing downwards.
GLAZING INSTRUCTIONS

Frame/Sash

1. All framing members must be specifically designed to accept the glass specified and must have adequate structural strength to support the weight of the glass without deformation.

2. Frame and/or sash must be level, plumb, square and in plane and also be free of any glazing obstruction.

3. Joints must be adequately buttered with sealant to prevent water and air infiltration and all sill members must have weep holes to the outside.

Clearance and edge bite

1. Adequate edge and face clearances must be provided to allow the glass to float freely in the opening, without undue restriction by the framing members. The recommended clearance on both vertical edges of the units is a minimum of 3/8” (9.5mm) for thumbwheel-operated units, 1/2” (12.7mm) for units operated by crank handles, knobs or Pittman and Baldor motors and 1 1/8” for Somfy motors.

2. Adequate bite is mandatory to maintain a watertight, weather-proof seal as well as retain the glass in the opening under conditions of wind loading and deformation of the framing members.

Setting blocks

1. Neoprene setting blocks should be used on the bottom edge of each sealed unit. Place setting blocks at the end points, under the metallic plates.

Sealing materials

1. For channel glazing, use only a non-hardening, non-corrosive, gun-applied sealant specifically recommended by the sealant manufacturer for the type of glass specified.

2. In no case shall glazing be performed with any oleo-resinous or oil-base compounds, nor shall any glazing sealant be diluted or thinned with any solvent.

3. Never fill the space between the bottom edge of the glass and the sill. This will interfere with the weepage system.

4. All sealants must be applied to provide an absolute watertight seal; on insulating glass units, sealant must contact the glass a minimum of 1/8” above the metal edge protection.

5. Sash with neoprene or structural neoprene gaskets must have a supplementary wet seal applied between the gasket and the glass, at the bottom edge (sill) of the glass and 6” (152.4mm) up on each jamb. Sill section of all structural neoprene gaskets must have weep holes to the exterior.

6. Special care must be taken when glazing laminated glass, polycarbonates and glass-clad polycarbonates, as they may react unfavorably with certain sealant components. Sealants made of 100% solid components, containing no solvents, must be used. Verify with your sealant manufacturer.

7. All surfaces to be sealed must be completely clean and dry. Verify with sealant manufacturer's recommendations for proper cleaning procedures.
CRANK HANDLE OR KNOB OPERATORS

A. Install stainless steel worm gear shaft\(^1\) into the cavity provided for it in the gear housing\(^3\). To insert the worm gear shaft in position, center it in the gear housing and press firmly. Insert the white gearing wheel \(^2\) on the brass shaft.

B. Make sure that the gear housing \(^3\) is free of dirt. Screw the plastic cover \(^4\) in place. Do not use excessive torque on screws in securing the plastic cover.

C. (Skip this step if the operator is an ligature-resistant knob \(^5\)). Test the functionality of the units by temporarily installing the operator \(^5\) and tightening the set screw \(^15\). The mechanism is self-reversing and should be tested as follows: Turn the operator in one direction (e.g., clockwise). When the louver reaches the closed position, continue turning 4-8 times in the same direction (e.g., clockwise) without fear of breaking the mechanism until the louver eventually re-open. Complete two full louver cycles by turning the operator in the same direction (e.g., clockwise). Repeat these steps in the opposite direction (e.g., counter-clockwise) for two more full louver cycles.

D. Drill the following hole (behind the aluminum block \(^13\)) in glass stop at the appropriate position (for worm gear shaft\(^1\)) according to Unicel’s approved shop drawings: for the zinc crank handle \(^5\) and the aluminum knob \(^5\), drill a 5/8” (15.9mm) diameter hole; for the ABS ligature-resistant knob \(^5\), drill a 3/8” (9.5mm) diameter hole.

E. Install setting blocks \(^12\) under the metal plates glued to the unit. Make sure they are sufficiently rigid to secure glass panel into its permanent position.

F. Install the Vision Control\(^9\) panel \(^9\) in the opening which must be level, plumb, square and in plane. Make sure the shaft \(^1\) is centered in the hole drilled in step D.

G. If necessary, install aluminum supporting block \(^13\) by securing with screws.

H. According to operator:
   1. Zinc crank handle: Screw the oval plate \(^7\), the crank handle \(^5\) and extension shaft \(^8\) into the the frame with screws \(^6\). Tighten the set screw \(^15\) of the crank handle \(^5\) if loose.
   2. Aluminum knob: Screw the oval plate \(^7\), the knob \(^5\) and extension shaft \(^8\) into the the frame with screws \(^6\). Tighten the set screw \(^15\) of the knob \(^5\) if loose.
   3. Brass ligature-resistant knob: Assemble the extension shaft \(^8\) with the round plate \(^7\) and the brass adaptor \(^14\) and tighten the first set screw. The assembly and the base of the knob \(^5\) into the frame with screws \(^6\). Push the knob \(^5\) into its base and tighten the second set screw \(^15\).

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VC 6.3 2020
FULL THUMBWHEEL OPERATOR

IMPORTANT NOTE:
Various thumbwheel diameters may occur throughout this order. Please refer to approved shop drawings to identify the proper thumbwheel diameter size to install.

This operation must be performed before installing the sealed units in their respective openings.

Test the functionality of the units by turning the thumbwheel in one direction (e.g. clockwise). When the louvers reach the closed position, continue turning in the same direction (e.g. clockwise) without fear of breaking the mechanism until the louvers eventually re-open. Complete two full louver cycles by turning the operator, always in the same direction (e.g. clockwise). Repeat these steps in the opposite direction (e.g. counter-clockwise) for two more full louver cycles.

ADDITIONAL INSTRUCTIONS
Install setting blocks under the metal plates glued to each unit. Make sure they are sufficiently rigid to secure the glass panels into their permanent position. The units must be level, plumb, square and in plane. Install the glass stops, which should have been notched at predetermined locations according to approved shop drawings, to accommodate thumbwheel operator.
IMPORTANT NOTE:

Various thumbwheel diameters may occur throughout this order. Please refer to approved shop drawings to identify the proper thumbwheel diameter size to install.

This operation must be performed before installing the glass units in their respective openings. Follow the instructions for either left side or right side, as required.

STEP 1

LEFT SIDE \( \text{L} \) AND RIGHT SIDE \( \text{R} \) STICKERS SHOULD BE FACING OUT

STEP 2

Install setting block under the metal plates glued to each unit. Make sure they are sufficiently rigid to secure the glass panels into their permanent position. The units must be level, plumb, square and in plane. Install the glass stops, which should have been notched at predetermined locations according to approved shop drawings, to accommodate thumbwheel operator.
FAN-SHAPED THUMBWHEEL OPERATORS

IMPORTANT NOTE:

Various thumbwheel diameters may occur throughout this order. Please refer to approved shop drawings to identify the proper thumbwheel diameter size to install.

This operation must be performed before installing the glass units in their respective openings.

Applicable for both left and right sides.

If this orientation is not observed, remove the thumbwheel, flip it and re-install it.

STEP 3

LEFT SIDE FAN-SHAPED THUMBWHEEL

OPEN POSITION

CLOSED POSITION

TURN IN THIS DIRECTION TO OPEN THE BLADES

TURN IN THIS DIRECTION TO CLOSE THE BLADES

FULL STOP

FULL STOP

LOUVERS COME DOWN FROM OPERABLE SIDE

RIGHT SIDE FAN-SHAPED THUMBWHEEL

OPEN POSITION

CLOSED POSITION

TURN IN THIS DIRECTION TO OPEN THE BLADES

TURN IN THIS DIRECTION TO CLOSE THE BLADES

FULL STOP

FULL STOP

LOUVERS COME DOWN FROM OPERABLE SIDE

NOTE:

ROTATION LIMITED TO APPROX. 115° INSTEAD OF 180°

LOUVERS COME DOWN FROM OPERABLE SIDE

IMPORTANT NOTE:

Various thumbwheel diameters may occur throughout this order. Please refer to approved shop drawings to identify the proper thumbwheel diameter size to install.

This operation must be performed before installing the glass units in their respective openings.

Applicable for both left and right sides.

If this orientation is not observed, remove the thumbwheel, flip it and re-install it.
FAN-SHAPED THUMBWHEEL OPERATORS FOR VISION CONTROL® UNITS WITH DOUBLE WHEELS

IMPORTANT NOTE FOR INSTALLATION:

1. Do not turn the brass hubs of the glass units!!

2. Install the wheels, sticker side facing out. Do not turn the wheels in any direction.

3. If the wheels are turned, it could cause irreversible damage to the mechanism of the unit.

4. Install Vision Control® glass in openings according to shop drawings. Install glass stops at perimeter, on both sides of the window.

5. Thumbwheels may now be turned.
FOR DOORS: VISION CONTROL® FURNISHED FACTORY-GLAZED IN UNICEL'S ALUMINUM TRIMS

STEP A
REMOVE SNAP-ON TRIM AT PERIMETER

STEP B
SNAP ON TOP TRIM

STEP C
THIS SIDE SHOULD BE HELD IN PLACE BY A WORKER TO PREVENT THE UNIT FROM FALLING OUT

STEP E
SNAP ON VERTICAL TRIM

STEP F
COEX GLAZING

STEP G
COEX GLAZING INSTALLATION

VISION CONTROL® IS FURNISHED FACTORY-GLAZED IN UNICEL'S ALUMINUM TRIMS FOR 1 3/4" (44.5mm) THICK DOORS
**Cleaning and maintenance of glass:**
- Routinely clean using ordinary window-washing techniques.
- For best results, use liquid glass cleaners or mild household detergents. Do not use cleaning compounds containing fluorine, strong acids, corrosive alkaline detergents or from glass surfaces.

**Cleaning and maintenance of zinc crank handle, aluminum knobs, or polymer thumbwheel:**
- If the crank handle or knob becomes loose, just tighten the allen screw with an allen key on the side of the crank handle or knob.
- Clean the crank handle or the knob with liquid glass cleaners and the thumbwheel with cleaners used for polymer.

**Cleaning and maintenance of aluminum blocks, oval plates, knobs, and aluminum trims:**
- Mild soaps or detergents ruled safe for bare hands should be safe for coated aluminum. Stronger detergents such as some dishwasher detergents should be carefully spot tested. After cleaning, the finish should be thoroughly rinsed with clean water and dried.
- Avoid abrasive cleaners. Strong solvents or strong cleaner concentrations can cause damage to painted surfaces. Overcleaning or excessive rubbing can do more harm than good.
- Abrasive materials such as steel wool and abrasive brushes can wear and harm finishes. Do not scour painted surfaces.
- Never use paint removers, aggressive alkaline, acid or abrasive cleaners. Do not use trisodium phosphate, highly alkaline or highly acid cleaners. Always do a test surface.
During a period of twenty (20) years from date of manufacture, depending on the type of unit construction and the use to which the unit is put, Vision Control® insulating glass units installed in interior applications are warranted not to develop, under normal conditions, material obstruction of vision as a result of dust or film formation on the internal glass surface caused by failure of the hermetic seal other than through glass breakage. Additionally, this warranty covers any internal parts for malfunction, mechanical failure or premature wear under normal use. Baldor and Pittman motors are covered up to a one (1)-year period. Somfy motors are covered up to a five (5)-year period. All other motorized elements are covered up to a one (1)-year period. Glass edge separation, changes in properties of interlayer, delamination of glass, glass coatings, and material obstruction through glass not caused by seal failure, are not covered beyond the warranty period offered by the original supplier of the material. This warranty does not apply to glass breakage or vandalism, and does not cover replacement and labor costs. Units installed in exterior applications and without breather tubes or capillary breather tubes are covered up to a ten (10)-year period.

This warranty is effective only if installation is made in accordance with Unicel's specific instructions and does not apply to units damaged by improper handling or installation. This represents Unicel's maximum liability. The obligations of Unicel under this warranty are limited to the repair or replacement, at Unicel's option, of defective parts of the goods. This warranty does not apply to replacement units beyond the original twenty (20)-year (or ten (10)-year) period to which the original unit is subjected. Unicel will not be liable for any other expenses involved in the removal of defective units, installation of replacement units, or any other incidental or consequential damages.

Unicel does not authorize any person, dealer, or distributor to create for it any obligation or liability in connection with the goods. Leakage will be the sole responsibility of the glass contractor or installer.

This warranty shall be void if the units are subjected to abnormal stresses from the load application of heat, excessive vibration, building or foundation movement; if glazed with materials which do not remain resilient for the life of the warranty, or if the methods and materials used in glazing the units do not completely repel water for the life of the warranty. Unicel reserves the right to inspect, in the field, any part or unit which is allegedly defective, or to request that the unit(s) be returned to Unicel for inspection.

This warranty is valid only if contracts have been paid in full.

Unicel Architectural Corp.