

# CATALOG OF PUBLICATIONS

August 2004

**DIRECTORIES** 

**STANDARDS** 

**BROCHURES** 

**Air-Conditioning and Refrigeration Institute** 

4100 North Fairfax Drive, Suite 200, Arlington, Virginia 22203

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#### **Air-Conditioning and Refrigeration Institute**

4100 North Fairfax Drive, Suite 200 Arlington, Virginia 22203 Tel: 703-524-8800, Fax: 703-528-3816 E-mail: ari@ari.org

#### ARI DIRECTORIES OF CERTIFIED PRODUCTS

#### Directory of Certified Air-to-Air Energy Recovery Ventilation Equipment.

This directory lists certified air-to-air energy recovery ventilation components verified under ARI Standard 1060. It is updated periodically and available electronically as a free download from <a href="https://www.ariprimenet.org">www.ariprimenet.org</a>.

#### **Directory of Certified Applied Air-Conditioning Products.**

This directory provides information on air cooling/heating coils, central station air handling units, room fan-coil air conditioners, packaged terminal air conditioners and heat pumps, water source and ground water source heat pumps, ground source closed-loop heat pumps, variable air volume terminals, unitary large equipment, positive displacement compressors, air-cooled rotary screw water-chilling packages and non-condensable gas purge equipment. It is continuously updated and available online at <a href="www.ariprimenet.org">www.ariprimenet.org</a> with search capabilities. A free downloadable version is available twice yearly (May and October). A CD-Rom version is available for purchase for \$99.00.

#### Directory of Certified Automatic Commercial Ice-Cube Machines and Ice Storage Bins.

This directory lists certified batch type (not flake type) automatic commercial ice-cube machines and ice storage bins as verified under ARI Standards 810 and 820. A free downloadable version is available twice yearly (January and July) from <a href="https://www.ariprimenet.org">www.ariprimenet.org</a>. Also available in a paper format for \$2.00.

#### Directory of Certified Direct Geoexchange Heat Pumps.

This directory lists certified direct geoexchange heat pumps verified under ARI Standard 870. It is updated periodically and available electronically as a free download from <a href="https://www.ariprimenet.org">www.ariprimenet.org</a>.

#### **Directory of Certified Drinking-Water Coolers.**

This directory lists all self-contained mechanically-refrigerated drinking water coolers of both bottle and pressure type as certified under ARI Standard 1010. A free downloadable version is available every July from <a href="https://www.ariprimenet.org">www.ariprimenet.org</a>.

### Directory of Certified Refrigerant Recovery/Recycling Equipment, Reclaimed Refrigerants, and Refrigerant Testing Laboratories.

This directory reflects verification that reclaimed refrigerants meet the purity levels of ARI Standard 700, as well as verification of performance of recovery, recovery/recycling, and recycling equipment to ARI Standard 740 and certified refrigerant laboratories testing to ARI Standard 700. A free downloadable version is available twice yearly (January and July) from <a href="https://www.ariprimenet.org">www.ariprimenet.org</a>. Also available in a paper format for \$4.00.

#### **Directory of Certified Transport Refrigeration Units.**

This directory lists certified transport refrigeration units verified under ARI Standard 1110. A free downloadable version is available every January from www.ariprimenet.org.

#### **Directory of Certified Unitary Products.**

This directory contains listing of certified air-source unitary (residential and commercial) air-conditioners, air-source unitary heat pumps and sound-rated outdoor unitary equipment below 135,000 Btuh. It is continuously updated and available online at <a href="https://www.ariprimenet.org">www.ariprimenet.org</a> with search capabilities. A free downloadable version is available twice yearly (May and October). A CD-Rom version is available for purchase for \$99.00.

In numerical order:

| Number                   | Title   | Prices<br>(Member/Non-Member) |
|--------------------------|---|-------------------------------|
| 110-2002                 | Air-Conditioning and Refrigerating Equipment<br>Nameplate Voltages  | \$5.00/\$10.00                |
| 130-2003                 | Graphic Electrical/Electronic Symbols for Air-<br>Conditioning and Refrigerating Equipment                | \$10.00/\$20.00               |
| 210/240-2003             | Unitary Air-Conditioning and Air-Source Heat<br>Pump Equipment  | \$20.00/\$40.00               |
| 250-2001                 | Performance and Calibration of Reference<br>Sound Sources   | \$10.00/\$20.00               |
| 260-2001 (with Addendum) | Sound Rating of Ducted Air Moving and Conditioning Equipment  | \$10.00/\$20.00               |
| 270-95                   | Sound Rating of Outdoor Unitary Equipment   | \$10.00/\$20.00               |
| 275-97                   | Application of Sound Rating Levels of<br>Outdoor Unitary Equipment  | \$15.00/\$30.00               |
| 280-95                   | Requirements for the Qualification of Reverberant Rooms in the 63 Hz Octave Band                          | \$10.00/\$20.00               |
| 300-2000                 | Sound Rating and Sound Transmission Loss of<br>Packaged Terminal Equipment                                | \$10.00/\$20.00               |
| 310/380-2004             | Standard for Packaged Terminal Air-<br>Conditioners and Heat Pumps (CSA-C744-04)                          | \$15.00/\$30.00               |
| 320-98                   | Water-Source Heat Pumps   | \$10.00/\$20.00               |
| 325-98                   | Ground Water-Source Heat Pumps  | \$10.00/\$20.00               |
| 330-98                   | Ground Source Closed-Loop Heat Pumps  | \$10.00/\$20.00               |
| 340/360-2000             | Commercial and Industrial Unitary Air-<br>Conditioning and Heat Pump Equipment<br>(ANSI/ARI 340/360-2000) | \$15.00/\$30.00               |
| 350-2000                 | Sound Rating of Non-Ducted Indoor Air-<br>Conditioning Equipment  | \$10.00/\$20.00               |
| 365-2002                 | Commercial and Industrial Unitary Air-<br>Conditioning Condensing Units                                   | \$10.00/\$20.00               |

| Number                     | mber Title Prices (Member   |                 |
|----------------------------|---|-----------------|
| 370-2001                   | Sound Rating of Large Outdoor Refrigerating and Air-Conditioning Equipment  | \$15.00/\$30.00 |
| 390-2003                   | Performance Rating of Single Package Vertical<br>Air-Conditioners and Heat Pumps  | \$10.00/\$20.00 |
| 400-2001 (with Addendum 1) | Liquid to Liquid Heat Exchangers (ANSI/ARI 400-2001) and ARI 400-2001 with Addendum 1   | \$10.00/\$20.00 |
| 410-2001 (with Addendum)   | Forced-Circulation Air-Cooling and Air-Heating Coils  | \$20.00/\$40.00 |
| 420-2000                   | Unit Coolers for Refrigeration  | \$10.00/\$20.00 |
| 430-99                     | Central Station Air Handling Units (ANSI/ARI 430-99)  | \$15.00/\$30.00 |
| 440-98                     | Room Fan-Coils  | \$10.00/\$20.00 |
| 450-99                     | Water-Cooled Refrigerant Condensers, Remote Type  | \$10.00/\$20.00 |
| 460-2000                   | Remote Mechanical-Draft Air-Cooled Refrigerant<br>Condensers (ANSI/ARI 460-2000)  | \$10.00/\$20.00 |
| 470-2001                   | Desuperheater/Water Heaters   | \$10.00/\$20.00 |
| 480-2001                   | Refrigerant-Cooled Liquid Coolers, Remote Type  | \$10.00/\$20.00 |
| 490-2003                   | Remote Mechanical-Draft Evaporative<br>Refrigerant Condensers   | \$10.00/\$20.00 |
| 495-99                     | Refrigerant Liquid Receivers (ANSI/ARI 495-99)  | \$5.00/\$10.00  |
| 500-2000                   | Variable Capacity Positive Displacement<br>Refrigerant Compressors and Compressor Units<br>for Air-Conditioners and Heat Pump Applications<br>(ANSI/ARI 500-2000) | \$10.00/\$20.00 |
| 510-93                     | Ammonia Compressor Units (ANSI/ARI 510-93)  | \$5.00/\$10.00  |
| 520-97                     | Positive Displacement Condensing Units  | \$10.00/\$20.00 |
| 530-95                     | Method of Measuring Sound and Vibration of Refrigerant Compressors  | \$15.00/\$30.00 |

### ARI STANDARDS – Numerical Order\_\_\_\_\_

| Number       | Title Prices (Member/Non-Member)  |                  |  |  |
|--------------|---|------------------|--|--|
| 540-99       | Positive Displacement Refrigerant<br>Compressors and Compressor Units<br>(ANSI/ARI 540-99)                          | \$20.00/\$40.00  |  |  |
| 550/590-2003 | Performance Rating of Water Chilling<br>Packages Using the Vapor Compression Cycle                                  | \$20.00/\$40.00  |  |  |
| 560-2000     | Absorption Water Chilling and Water Heating Packages (ANSI/ARI 560-2000)  | \$20.00/\$40.00  |  |  |
| 575-94       | Method of Measuring Machinery Sound<br>Within an Equipment Space  | \$15.00/\$30.00  |  |  |
| 580-2001     | Non-Condensable Gas Purge Equipment for<br>Use with Low Pressure Centrifugal Liquid<br>Chillers (ANSI/ARI 580-2001) | \$10.00/\$20.00  |  |  |
| 610-96       | Central System Humidifiers for Residential Applications (ANSI/ARI 610-96)   | \$20.00/\$40.00  |  |  |
| 620-2004     | Performance Rating of Self-Contained<br>Humidifiers for Residential Applications                                    | \$10.00/\$20.00  |  |  |
| 640-96       | Commercial and Industrial Humidifiers (ANSI/ARI 640-96)   | \$10.00/\$20.00  |  |  |
| 680-93       | Residential Air Filter Equipment  | \$10.00/\$20.00  |  |  |
| 700-2004     | Specification for Fluorocarbon Refrigerants   | \$10.00/\$20.00  |  |  |
| 700C-99      | Appendix C to ARI Standard 700 - Analytical Procedures for ARI Standard 700-99                                      | \$60.00/\$120.00 |  |  |
| 710-86       | Liquid-Line Driers  | \$10.00/\$20.00  |  |  |
| 720-2002     | Refrigerant Access Valves and Hose<br>Connectors  | \$10.00/\$20.00  |  |  |
| 730-2001     | Flow-Capacity Rating and Application of Suction-Line Filters and Filter-Driers                                      | \$5.00/\$10.00   |  |  |
| 740-98       | Refrigerant Recovery/Recycling Equipment  | \$15.00/\$30.00  |  |  |
| 750-2001     | Thermostatic Refrigerant Expansion Valves (ANSI/ARI 750-2001)   | \$10.00/\$20.00  |  |  |
| 760-2001     | Solenoid Valves for Use with Volatile Refrigerants  | \$15.00/\$30.00  |  |  |

| Number                    | Title  | Prices<br>(Member/Non-Member) |
|---------------------------|--|-------------------------------|
| 770-2001                  | Refrigerant Pressure Regulating Valves   | \$15.00/\$30.00               |
| 810-2003                  | Automatic Commercial Ice-Makers  | \$10.00/\$20.00               |
| 820-2000                  | Ice Storage Bins   | \$10.00/\$20.00               |
| 840-98                    | Unit Ventilators   | \$10.00/\$20.00               |
| 850-93                    | Commercial and Industrial Air Filter<br>Equipment  | \$10.00/\$20.00               |
| 870-2001                  | Direct Geoexchange Heat Pumps<br>(ANSI/ARI 870-2001)   | \$15.00/\$30.00               |
| 880-98 (with<br>Addendum) | Air Terminals  | \$15.00/\$30.00               |
| 885-98 (with Addendum)    | Procedure for Estimating Occupied Space<br>Sound Levels in the Application of Air<br>Terminals and Air Outlets | \$25.00/\$50.00               |
| 890-2001                  | Rating of Air Diffusers and Air Diffuser<br>Assemblies   | \$10.00/\$20.00               |
| 900-98                    | Thermal Storage Equipment Used for Cooling   | \$25.00/\$50.00               |
| 910-99                    | Indoor Pool Dehumidifiers  | \$20.00/\$40.00               |
| 940-98                    | Desiccant Dehumidification Components  | \$10.00/\$20.00               |
| 1010-2002                 | Self-Contained, Mechanically-Refrigerated<br>Drinking-Water Coolers  | \$10.00/\$20.00               |
| 1060-2001                 | Rating Air-To-Air Energy Recovery<br>Ventilation Equipment (ANSI/ARI 1060-2001)                                | \$10.00/\$20.00               |
| 1110-2001 (with Addendum) | Mechanical Transport Refrigeration Units   | \$15.00/\$30.00               |
| 1160-2004                 | Performance Rating of Heat Pump Pool<br>Heaters  | \$10.00/\$20.00               |
| 1200-2002                 | Commercial Refrigerated Display Cases  | \$10.00/\$20.00               |

ARI Standards are available for free download at www.ari.org/std/. Paper copies of ARI Standards can be ordered from this catalog on ARI's web site at <a href="http://www.ari.org">http://www.ari.org</a>.

### ARI STANDARDS – Alphabetical Order\_\_\_\_\_

In alphabetical order:

| Title  | Number                 | Prices<br>(Member/Non-Member) |
|--|------------------------|-------------------------------|
| Absorption Water Chilling and Water Heating Packages   | 560-2000               | \$20.00/\$40.00               |
| Air-Conditioning and Refrigerating Equipment<br>Nameplate Voltages                                 | 110-2002               | \$5.00/\$10.00                |
| Air Terminals  | 880-98 (with Addendum) | \$15.00/\$30.00               |
| Ammonia Compressor Units (ANSI/ARI 510-93)   | 510-93                 | \$5.00/\$10.00                |
| Appendix C to ARI Standard 700 - Analytical Procedures for ARI Standard 700-99                     | 700C-99                | \$60.00/\$120.00              |
| Application of Sound Rating Levels of Outdoor Unitary Equipment                                    | 275-97                 | \$15.00/\$30.00               |
| Automatic Commercial Ice-Makers  | 810-2003               | \$10.00/\$20.00               |
| Central Station Air-Handling Units (ANSI/ARI 430-99)   | 430-99                 | \$15.00/\$30.00               |
| Central System Humidifiers for Residential Applications (ANSI/ARI 610-96)                          | 610-96                 | \$15.00/\$30.00               |
| Commercial and Industrial Air Filter Equipment   | 850-93                 | \$10.00/\$20.00               |
| Commercial and Industrial Humidifiers (ANSI/ARI 640-96)  | 640-96                 | \$10.00/\$20.00               |
| Commercial and Industrial Unitary Air-Conditioning and Heat Pump Equipment (ANSI/ARI 340/360-2000) | 340/360-<br>2000       | \$15.00/\$30.00               |
| Commercial and Industrial Unitary Air-Conditioning<br>Condensing Units                             | 365-2002               | \$10.00/\$20.00               |
| Commercial Refrigerated Display Cases  | 1200-2002              | \$10.00/\$20.00               |
| Desiccant Dehumidification Components  | 940-98                 | \$10.00/\$20.00               |
| Desuperheater/Water Heaters  | 470-2001               | \$10.00/\$20.00               |
| Direct Geoexchange Heat Pumps<br>(ANSI/ARI 870-2001)   | 870-2001               | \$15.00/\$30.00               |
| Flow-Capacity Rating and Application of Suction-Line Filters and Filter-Driers                     | 730-2001               | \$5.00/\$10.00                |

ARI STANDARDS – Alphabetical Order

| Title   | Number                         | S <i>– Alphabetical Order</i><br>  Prices |
|---|--------------------------------|---|
|   |                                | (Member/Non-Member)                       |
| Forced-Circulation Air-Cooling and Air-Heating Coils  | 410-2001 (with Addendum)       | \$20.00/\$40.00                           |
| Graphic Electrical/Electronic Symbols for Air-<br>Conditioning and Refrigerating Equipment                    | 130-2003                       | \$10.00/\$20.00                           |
| Ground Source Closed-Loop Heat Pumps  | 330-98                         | \$10.00/\$20.00                           |
| Ground Water-Source Heat Pumps  | 325-98                         | \$10.00/\$20.00                           |
| Ice Storage Bins  | 820-2000                       | \$10.00/\$20.00                           |
| Indoor Pool Dehumidifiers   | 910-99                         | \$20.00/\$40.00                           |
| Liquid-Line Driers  | 710-86                         | \$10.00/\$20.00                           |
| Liquid to Liquid Heat Exchangers (ANSI/ARI 400-2001) and ARI 400-2001 with Addendum 1                         | 400-2001 with<br>Addendum 1    | \$10.00/\$20.00                           |
| Mechanical Transport Refrigeration Units  | 1110-2001 (with Addendum)      | \$15.00/\$30.00                           |
| Method of Measuring Machinery Sound Within An Equipment Space   | 575-94                         | \$15.00/\$30.00                           |
| Method of Rating Sound and Vibration of<br>Refrigerant Compressors  | 530-95                         | \$15.00/\$30.00                           |
| Non-Condensable Gas Purge Equipment for Use with Low Pressure Centrifugal Liquid Chillers (ANSI/ARI 580-2001) | 580-2001                       | \$10.00/\$20.00                           |
| Performance and Calibration of Reference Sound<br>Sources   | 250-2001                       | \$10.00/\$20.00                           |
| Performance Rating of Heat Pump Pool Heaters  | 1160-2004                      | \$10.00/\$20.00                           |
| Performance Rating of Self-Contained Humidifiers for Residential Applications                                 | 620-2004                       | \$10.00/\$20.00                           |
| Performance Rating of Single Package Vertical Air-<br>Conditioners and Heat Pumps                             | 390-2003                       | \$10.00/\$20.00                           |
| Performance Rating of Water Chilling Packages Using the Vapor Compression Cycle                               | 550/590-2003<br>with Addendum) | \$20.00/\$40.00                           |
| Positive Displacement Condensing Units  | 520-97                         | \$10.00/\$20.00                           |
| Positive Displacement Refrigerant Compressors and Compressor Units (ANSI/ARI 540-99)                          | 540-99                         | \$20.00/\$40.00                           |
| Procedure for Estimating Occupied Space Sound Levels in the Application of Air Terminals and Air Outlets      | 885-98 (with Addendum)         | \$25.00/\$50.00                           |

## ARI STANDARDS – Alphabetical Order\_\_\_\_\_

| Title  | Number    | Prices<br>(Member/Non-Member) |
|--|-----------|-------------------------------|
| Rating Air-To-Air Energy Recovery Ventilation Equipment (ANSI/ARI 1060-2001)     | 1060-2001 | \$10.00/\$20.00               |
| Rating of Air Diffusers and Air Diffuser<br>Assemblies                           | 890-2001  | \$10.00/\$20.00               |
| Refrigerant Access Valves and Hose Connectors                                    | 720-2002  | \$10.00/\$20.00               |
| Refrigerant-Cooled Liquid Coolers, Remote Type                                   | 480-2001  | \$10.00/\$20.00               |
| Refrigerant Liquid Receivers (ANSI/ARI 495-99)                                   | 495-99    | \$5.00/\$10.00                |
| Refrigerant Pressure Regulating Valves   | 770-2001  | \$15.00/\$30.00               |
| Refrigerant Recovery/Recycling Equipment   | 740-98    | \$15.00/\$30.00               |
| Remote Mechanical-Draft Air-Cooled Refrigerant<br>Condensers (ANSI/ARI 460-2000) | 460-2000  | \$10.00/\$20.00               |
| Remote Mechanical-Draft Evaporative<br>Refrigerant Condensers                    | 490-2003  | \$10.00/\$20.00               |
| Requirements for the Qualification of Reverberant Rooms in the 63 Hz Octave Band | 280-95    | \$10.00/\$20.00               |
| Residential Air Filter Equipment   | 680-93    | \$10.00/\$20.00               |
| Room Fan-Coils   | 440-98    | \$10.00/\$20.00               |
| Self-Contained, Mechanically Refrigerated<br>Drinking-Water Coolers              | 1010-2002 | \$10.00/\$20.00               |
| Solenoid Valves for Use with Volatile Refrigerants                               | 760-2001  | \$15.00/\$30.00               |
| Sound Rating and Sound Transmission Loss of Packaged Terminal Equipment          | 300-2000  | \$10.00/\$20.00               |
| Sound Rating of Ducted Air Moving and<br>Conditioning Equipment (with Addendum)  | 260-2001  | \$10.00/\$20.00               |
| Sound Rating of Large Outdoor Refrigerating and Air-Conditioning Equipment       | 370-2001  | \$15.00/\$30.00               |
| Sound Rating of Outdoor Unitary Equipment  | 270-95    | \$10.00/\$20.00               |

### \_ARI STANDARDS - Alphabetical Order

| Title   | Number       | Prices<br>(Member/Non-Member) |
|---|--------------|-------------------------------|
| Sound Rating of Non-Ducted Indoor Air-<br>Conditioning Equipment  | 350-2000     | \$10.00/\$20.00               |
| Specification for Fluorocarbon Refrigerants   | 700-2004     | \$15.00/\$30.00               |
| Standard for Packaged Terminal Air-Conditioners and Heat Pumps (CSA-C744-04)  | 310/380-2004 | \$10.00/\$20.00               |
| Thermal Storage Equipment Used for Cooling  | 900-98       | \$25.00/\$50.00               |
| Thermostatic Refrigerant Expansion Valves (ANSI/ARI 750-2001)   | 750-2001     | \$10.00/\$20.00               |
| Unitary Air-Conditioning and Air-Source Heat<br>Pump Equipment  | 210/240-2003 | \$20.00/\$40.00               |
| Unit Coolers for Refrigeration  | 420-2000     | \$10.00/\$20.00               |
| Unit Ventilators  | 840-98       | \$10.00/\$20.00               |
| Variable Capacity Positive Displacement<br>Refrigerant Compressors and Compressor Units<br>for Air-Conditioning and Heat Pump Applications<br>(ANSI/ARI 500-2000) | 500-2000     | \$10.00/\$20.00               |
| Water-Cooled Refrigerant Condensers, Remote Type  | 450-99       | \$10.00/\$20.00               |
| Water-Source Heat Pumps   | 320-98       | \$10.00/\$20.00               |

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### ARI GUIDELINES\_\_\_\_\_

| Number | Title  | Prices<br>(Member/Non-Member) |  |
|--------|--|-------------------------------|--|
| A-2003 | Energy Management Systems and Load<br>Management Through Duty Cycling  | \$5.00/\$10.00                |  |
| B-1997 | Roof Mounted Outdoor Air-Conditioner Installations.  | \$5.00/\$10.00                |  |
| C-1995 | Recommended Dimensions of Steel Solder/Braze Fittings.   | \$5.00/\$10.00                |  |
| E-1997 | Fouling Factors: A Survey of Their Application in Today's Air-Conditioning and Refrigeration Industry.                           | \$10.00/\$20.00               |  |
| F-1997 | Selection, Installation and Servicing of Residential Humidifiers.  | \$10.00/\$20.00               |  |
| G-2002 | Mechanical Balance of Fans and Blowers.  | \$10.00/\$20.00               |  |
| K-1997 | Containers for Recovered Fluorocarbon Refrigerants.  | \$10.00/\$20.00               |  |
| L-1997 | Assessing the Impact of Air-Conditioning<br>Outdoor Sound Levels in the Residential<br>Community                                 | \$10.00/\$20.00               |  |
| N-2002 | Assignment of Refrigerant Color Containers.  | \$10.00/\$20.00               |  |
| Q-2001 | Content Recovery and Proper Recycling of \$5.00/\$10.00 Refrigerant Cylinders  |                               |  |
| T-2002 | Specifying the Thermal Performance of Cool Storage Equipment.  | \$10.00/\$20.00               |  |
| V-2003 | Calculating the Efficiency of Energy Recovery<br>Ventilation and its Effect on Efficiency and<br>Sizing of Building HVAC Systems | \$10.00/\$20.00               |  |

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25 West 43rd Street, 4th Fl. Fax: (212)-398-0023

New York, New York, 10036 Website: http://www.ansi.org

\* - hard-copy format only

The following ARI White Papers are available:

#### Title

Commercial Refrigerator Manufacturers Division White Paper – Overview of ARI Standard 1200-2002

Technical Committee on Sound White Paper: Product Labeling and International Standards-Implications and Benefits of an ARI "Labeling" Procedure

ARI Standard 550/590-98: Standard for Water Chilling Packages Using the Vapor Compression Cycle

ISO 13256-1 White Paper: Standard for Water-Source Heat Pumps

Refrigerant Blends: Composition Change During Refrigerant Transfer and Equipment Charging

ARI White Papers are available for free download at www.ari.org/wp/.

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