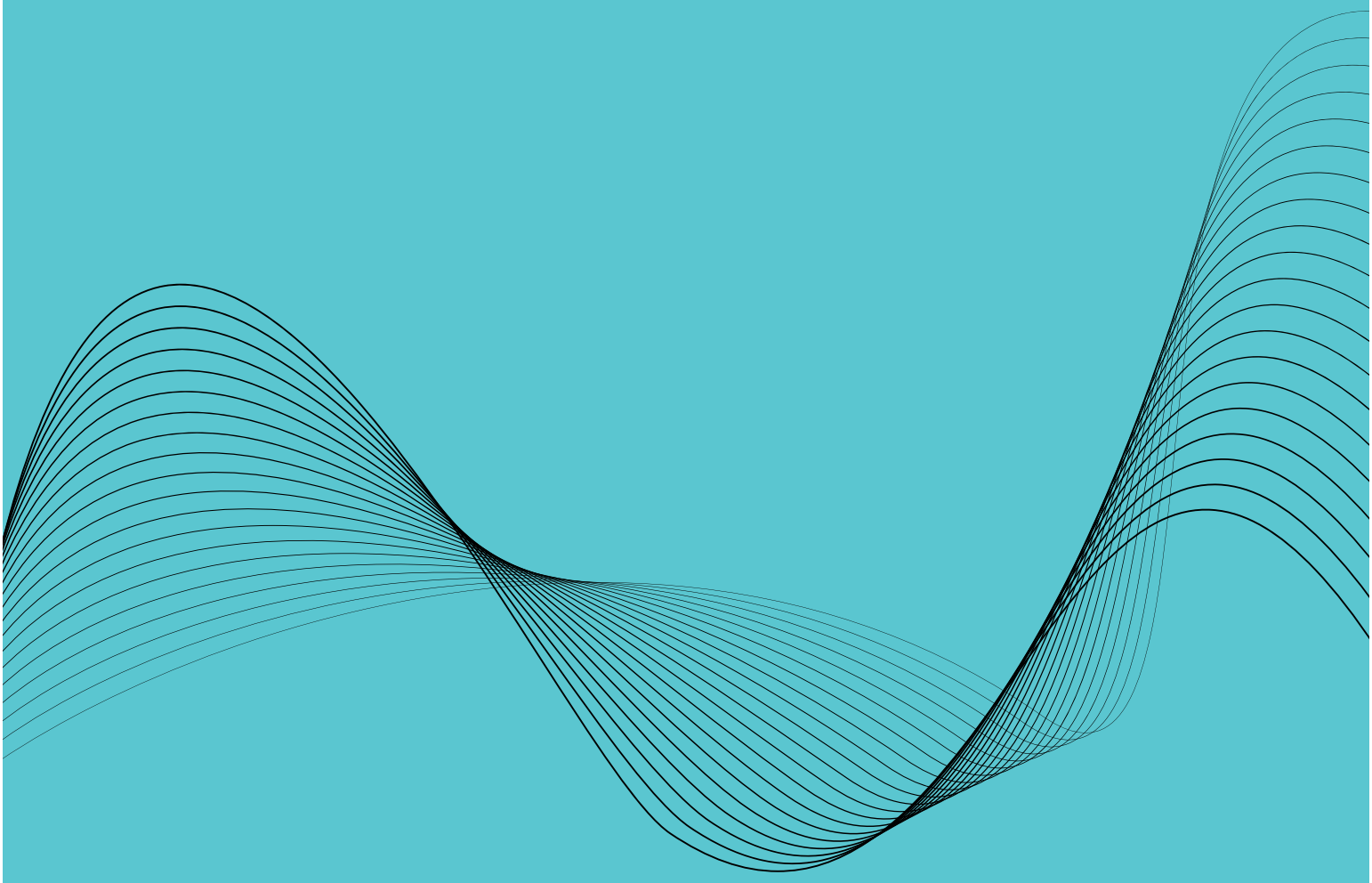
Consumables & Instruments

Ice-Free Cooling Workstations



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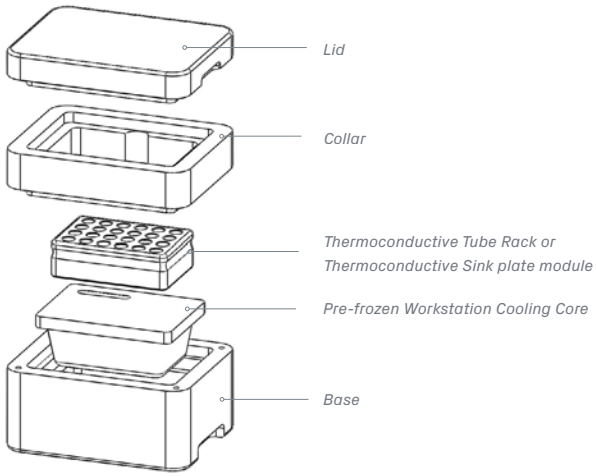
Ice-Free Cooling Workstations

Ice-Free Cooling Workstations are bench top cooling workstations that provide sample cooling or freezing without ice, electricity or batteries. Ice-Free Cooling Workstations are versatile and accommodate a variety of sample formats and temperatures. The modular design enables the use of Thermoconductive Tube Rack and Thermoconductive Sink sample modules to hold microfuge tubes, cryogenic vials, PCR tubes or plates, assay plates and more.



How It Works

- Freeze the Cooling Core in -20°C freezer
- Place frozen core in base
- Place Thermoconductive Tube Rack or Thermoconductive Sink module on core
- Module will equilibrate and maintain temperature via thermo-conductivity

How to Configure an Ice-Free Cooling Workstation System

	1. Identify Tube or Plate	2. Choose Thermoconductive Tube Rack or Thermoconductive Sink Module	3. Choose Ice-Free Cooling Workstation capacity and color
Example 1	up to 24 microcentrifuge tubes	 Thermoconductive Tube Rack for 24 Microcentrifuge Tubes	 Cooling Workstation, Single Capacity
Example 2	up to 48 microcentrifuge tubes	 2 x Thermoconductive Tube Racks for 24 Microcentrifuge Tubes	 Cooling Workstation, Double Capacity
Example 3	24 microcentrifuge tubes and one PCR plate, 12 PCR strips, or 0.2 mL PCR tubes	 Thermoconductive Tube Rack for 24 Microcentrifuge Tubes + Thermoconductive Tube Rack for 96-Well PCR Plates	 Cooling Workstation, Double Capacity

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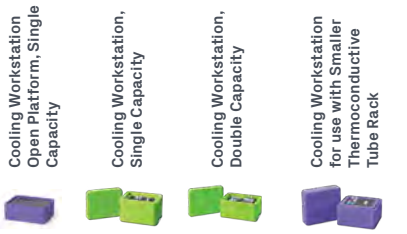
Choose Your Thermoconductive Tube Rack Module



Open	4 hr	10 hr	10 hr	4 hr
Closed	--	16 hr	16 hr	10 hr

For Use With	Wells	Well Shape	Dimensions (L x W x H)	Well Dia.	Well Depth	Description	Item No.	Capacity			
Microfuge tube modules: Thermoconductive Tube Racks for Microcentrifuge Tubes											
1.5 mL or 2.0 mL tubes	6	Cylindrical	6.0 x 4.3 x 3.8 cm	11.1 mm	32.7 mm	Thermoconductive Tube Rack for 6 Microcentrifuge Tubes	BCS-163	1	up to 3	up to 8	up to 2
1.5 mL or 2.0 mL tubes	15	Cylindrical	10.2 x 6.4 x 3.8 cm	11.1 mm	32.7 mm	Thermoconductive Tube Rack for 15 Microcentrifuge Tubes	BCS-125	1	1	up to 4	1
1.5 mL conical tubes	15	Conical	10.2 x 6.4 x 3.8 cm	11.1 mm	35.3 mm	Thermoconductive Tube Rack for 15 Microcentrifuge Tubes, Conical Wells	BCS-127	1	1	up to 4	1
1.5 mL 0r 2.0 mL tubes	24	Cylindrical	12.8 x 8.5 x 3.8 cm	11.1 mm	32.7 mm	Thermoconductive Tube Rack for 24 Microcentrifuge Tubes*	BCS-535	1	1	up to 2	—
5.0 mL centrifuge tubes	12	Conical	12.7 x 8.6 x 5.0 cm	16.5 mm	48.7 mm	Thermoconductive Tube Rack for 12 x 5mL Microcentrifuge Tubes*	BCS-539	1	1	up to 2	—
1.5 mL or 2.0 mL tubes	30	Cylindrical	12.0 x 10.2 x 3.8 cm	11.1 mm	32.7 mm	Thermoconductive Tube Rack for 30 Microcentrifuge Tubes	BCS-108	1	--	up to 2	1
1.5 mL conical tubes	30	Conical	12.0 x 10.2 x 3.8 cm	11.1 mm	35.3 mm	Thermoconductive Tube Rack for 30 Microcentrifuge Tubes, Conical Wells	BCS-128	1	--	up to 2	1
500 uL conical tubes	30	Conical	12.0 x 10.2 x 3.8 cm	11.1 mm	35.3 mm	Thermoconductive Tube Rack for 30 Microcentrifuge Tubes, 500µl	BCS-137	1	--	up to 2	1
Cryogenic vial and FACS tube modules: Thermoconductive Tube Racks for Cryo or FACS Tubes											
cryogenic vials or FACS tubes	15	Cylindrical	10.2 x 6.4 x 3.8 cm	12.7 mm	32.7 mm	Thermoconductive Tube Rack for 15 Cryo or FACS Tubes	BCS-126	1	1	up to 4	1
cryogenic vials or FACS tubes	24	Cylindrical	12.8 x 8.5 x 3.8 cm	12.7 mm	32.7 mm	Thermoconductive Tube Rack for 24 Cryo or FACS Tubes*	BCS-534	1	1	up to 2	—
cryogenic vials or FACS tubes	30	Cylindrical	12.0 x 10.2 x 3.8 cm	12.7 mm	32.7 mm	Thermoconductive Tube Rack for 30 Cryo or FACS Tubes⌀	BCS-138	1	--	up to 2	1
cryogenic vials or FACS tubes	45	Cylindrical	17.3 x 9.7 x 3.8 cm	12.7 mm	32.7 mm	Thermoconductive Tube Rack for 45 Cryo or FACS Tubes	BCS-105	--	--	1	—
PCR plate, strip well or tube modules: Thermoconductive Tube Racks for PCR Plates											
One 96-well PCR plate, strip wells, 0.2mL tubes	96	Tapered	12.7 x 8.6 x 2.5 cm	-	13.2 mm	Thermoconductive Tube for 96-Well PCR Plates*	BCS-529	1	1	up to 2	—
6 strip wells and 12 x 1.5 or 2.0 mL microfuge tubes	48(PCR) 12(M)	Tapered(PCR) Cylindrical(M)	12.7 x 8.6 x 3.8 cm	- 11.1 mm	13.2 mm 32.7 mm	Thermoconductive Tube Rack for Microcentrifuge Tubes Plus Strip Wells*	BCS-523	1	1	up to 2	—
One 384-well PCR plate	384	Tapered	12.7 x 8.6 x 1.9 cm	-	7.6 mm	Thermoconductive Tube Rack for 384-Well PCR Plates*	BCS-538	1	1	up to 2	—
2D coded storage tube modules: Thermoconductive Tube Racks for 96-Well Coded Tubes											
0.5 mL 2D storage tubes	96	Cylindrical	13.1 x 8.9 x 3.6 cm	8.4 mm	24.6 mm	Thermoconductive Tube Rack for 96 x 0.5mL Barcoded Tubes	BCS-231	1	1	up to 2	—
1.4 mL 2D storage tubes	96	Cylindrical	13.2 x 8.9 x 3.6 cm	8.3 mm	32.7 mm	Thermoconductive Tube Rack for 96 x 1mL Barcoded Tubes	BCS-149	1	1	up to 2	—
Cell therapy injectable ampule modules: Thermoconductive Tube Racks for Injectable Cell Therapy Ampules											
2.0 mL injectable cell therapy ampules	12	Cylindrical	12.7 x 8.6 x 3.8 cm	16.0 mm	24.0 mm	Thermoconductive Tube Rack for 12 x 2mL Injectable Cell Therapy Ampules	BCS-266	1	1	up to 2	—
10.0 mL injectable cell therapy ampules	12	Cylindrical	12.7 x 8.6 x 3.8 cm	23.6 mm	27.9 mm	Thermoconductive Tube Rack for 12 x 10mL Injectable Cell Therapy Ampules	BCS-265	1	1	up to 2	—

** SBS-compatible ⌀ "gripping" wells for one-hand vial opening/closing*

Ice-Free Cooling Workstations

For Use With	Wells	Well Shape	Dimensions (L x W x H)	Well Dia.	Well Depth	Description	Item No.	Capacity			
Tall tube modules: Thermoconductive Tube Racks for 15 mL, 50mL and 250 mL Centrifuge Tubes											
15 mL centrifuge tubes	12	Cylindrical	13.7 x 9.5 x 11.8 cm	17.5 mm	105.4 mm	Thermoconductive Tube Rack for 12 x 15mL Centrifuge Tubes, with insulative exterior†	BCS-232	1	1Δ	up to 2Δ	—
15 mL centrifuge tubes	9	Cylindrical	8.9 x 8.9 x 10.7 cm	17.1 mm	106.7 mm	Thermoconductive Tube Rack for 9 x 15mL Centrifuge Tubes	BCS-153	1	1Δ	up to 2Δ	—
50 mL centrifuge tubes	4	Cylindrical	8.9 x 8.9 x 10.7 cm	29.5 mm	101.6 mm	Thermoconductive Tube Rack for 4 x 50mL Centrifuge Tubes	BCS-154	1	1Δ	up to 2Δ	—
250 mL centrifuge tube	1	Conical	8.9 x 8.9 x 14.0 cm	60.4 mm	133.3 mm	Thermoconductive Tube Rack for 1 x 250mL Centrifuge Tube	BCS-532	1	1**	up to 2**	—
250 mL centrifuge tube	1	Cylindrical	8.9 x 8.9 x 7.2 cm	73.6 mm	66. mm	n/a	BCS-533	1	1	up to 2	—
Blood collection tube modules: Thermoconductive Tube Racks for Blood Tubes											
13 mm or 16 mm blood tubes	12	Cylindrical	13.7 x 9.5 x 9.6 cm	16.6 mm	83.3 mm	Thermoconductive Tube Rack for 12 x 13mm or 16mm Blood Tubes, with insulative exterior†	BCS-235	1	1	up to 2Δ	—
13x75 mm blood tubes	9	Cylindrical	8.9 x 8.9 x 6.1 cm	13.0 mm	61.0 mm	Thermoconductive Tube Rack for 9 13x75mm Blood Tubes	BCS-157	1	1Δ	up to 2Δ	—
13x100 mm blood tubes or 5 mL cryogenic vials	9	Cylindrical	8.9 x 8.9 x 8.4 cm	13.0 mm	83.8 mm	Thermoconductive Tube Rack for 9 13x100mm Blood Tubes	BCS-155	1	1Δ	up to 2Δ	—
16x100 mm blood tubes	9	Cylindrical	8.9 x 8.9 x 8.4 cm	16.0 mm	83.8 mm	Thermoconductive Tube Rack for 9 16x100mm Blood Tubes	BCS-156	1	1Δ	up to 2Δ	—

† Thermo-conductive base and insulative exterior Δ *Requires extension collar accessory for closed lid cooling* ** *Lid closure not possible even with the addition of extension collar*

Choose Your Ice-Free Cooling Workstation System

	Cooling Workstation Open Platform, Single Capacity	Cooling Workstation, Single Capacity & Cooling Workstation, Double Capacity	Cooling Workstation for use with Smaller Thermoconductive Tube Rack
Holds Tubes	Yes	Yes	Yes
Holds Plates	Yes	Yes	n/a
0.5° - 4°C cooling with lid open	4 hours	10 hours	4 hours
0.5° - 4°C cooling with lid closed	n/a	16 hours	10 hours
<0°C freezing with lid open	n/a	5 hours	3 hours
<0°C freezing with lid closed	n/a	8 hours	6 hours

Cooling Workstation Open Platform, Single Capacity

An open-platform ice-free cooler that accommodates most Thermoconductive Tube Racks and Thermoconductive Sink modules. Low profile and small footprint make it ideal for use in the hood, keeping samples cold (0.5° to 4.0°C) up to four hours. 1°C to 8°C temperature indicator provides visual assurance of temperature performance. To extend the cooling duration, keep an additional Cooling Workstation Cooling Core in the freezer and rotate the Cores as needed.

Ordering Information

BCS-504	**Cooling Workstation System,** single capacity open platform, cooling core included, **purple**, 1 system
BCS-513	**Cooling Workstation,** single capacity, open platform holder, **purple**, 1 holder
BCS-511	**Cooling Workstation Cooling Core,** 0.5°C to 4°C, **blue**

Cooling Workstation, Single Capacity or Double Capacity System

Keep sample tubes or plates cold for over 16 hours with the lid on, and over 10 hours with the lid off. Use optional Cooling Workstation Freezing Core to maintain frozen samples for over 8 hours. Dry ice may be used in place of the cores to create a compact snap freezing workstation.

Cooling Workstation, Single Capacity

Includes: Cooling Workstation, Single Capacity base, collar, lid and (1) Cooling Workstation Cooling Core for 0.5° to 4°C cooling.

Ordering Information

BCS-502	**Cooling Workstation, single capacity,** cooling core included, **purple**
BCS-502G	**Cooling Workstation, single capacity,** cooling core included, **green**
BCS-502O	**Cooling Workstation, single capacity,** cooling core included, **orange**
BCS-502PK	**Cooling Workstation, single capacity,** cooling core included, **pink**
BCS-502-F	**Cooling Workstation, single capacity,** freezing core included, **purple**

** Internal height of open space when core is in the base.*

Cooling Workstation, Double Capacity

Includes: Cooling Workstation, Double Capacity base, collar, lid and (2) Cooling Workstation Cooling Core for 0.5° to 4°C cooling.

Ordering Information

BCS-503	**Cooling Workstation, double capacity,** cooling core included, **purple**
BCS-503G	**Cooling Workstation, double capacity,** cooling core included, **green**
BCS-503O	**Cooling Workstation, double capacity,** cooling core included, **orange**
BCS-503PK	**Cooling Workstation, double capacity,** cooling core included, **pink**
BCS-503-F	**Cooling Workstation, double capacity,** freezing core included, **purple**

** Internal height of open space when core is in the base.*

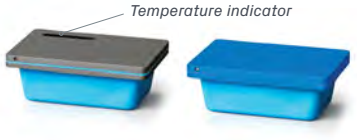
Optional Accessories

Cooling Workstation Single Capacity and Cooling Workstation Double Capacity Extension Collar

For use with Cooling Workstation Single Capacity and Cooling Workstation Double Capacity systems to accommodate tall tube modules. The collar is magnetized and easily adheres to the unit base.

Ordering Information

BCS-502-C	**Cooling Workstation Extension Collar,** for Cooling Workstation, **purple**
BCS-502-CG	**Cooling Workstation Extension Collar,** for Cooling Workstation, **green**
BCS-502-CO	**Cooling Workstation Extension Collar,** for Cooling Workstation, **orange**
BCS-502-CPK	**Cooling Workstation Extension Collar,** for Cooling Workstation, **pink**
BCS-503-C	**Cooling Workstation Extension Collar,** for Cooling Workstation Large, **purple**
BCS-503-CG	**Cooling Workstation Extension Collar,** for Cooling Workstation Large, **green**
BCS-503-CO	**Cooling Workstation Extension Collar,** for Cooling Workstation Large, **orange**
BCS-503-CPK	**Cooling Workstation Extension Collar,** for Cooling Workstation Large, **pink**



Cooling Workstation Cores

Keep additional cooling or freezing cores in the freezer for flexibility and extended duration. Cooling Workstation Cooling Core features a 1 to 8°C temperature indicator. Both cooling and freezing cores feature a thermo-conductive surface for uniform temperature distribution.

Ordering Information

BCS-511	**Cooling Workstation Cooling Core,** 0.5°C to 4°C, **blue**
BCS-512	**Cooling Workstation Freezing Core,** below 0°C, **blue**

Cooling Workstation for use with Smaller Thermoconductive Tube Rack

Keeps tubes cold (0.5° to 4.0°C) for up to 10 hours. Use the optional freezing cartridge to maintain frozen samples below 0°C for up to 6 hours.

Cooling Workstation for use with Smaller Thermoconductive Tube Rack

Includes: Cooling Workstation for use with Smaller Thermoconductive Tube Rack base and lid, blue cooling cartridge.

Cooling Workstation Cartridges

Ordering Information

BCS-130	**Cooling Workstation, single capacity,** for use with smaller thermo-conductive tube racks (that hold 15 or 30 tubes), cooling cartridge included, **purple**
Cooling Workstation Cartridges	
BCS-132	**Cooling Workstation Cooling Cartridge,** for use with BCS-130, 3 pack, **blue**
BCS-131	**Cooling Workstation Freezing Cartridge,** for use with BCS-130, 3 pack, **green**

** Internal height of open space when core is in the base.*

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Popular Pre-assembled Configurations

Cooling Workstation Open Platform, Single Capacity PCR Cooling Systems, pre-assembled

Ordering Information

BCS-556	**Cooling Workstation System, pre-assembled open-platform, for use with PCR plates,** includes 1 x BCS-504 (Cooling Workstation System) and 1 x BCS-529 (Thermoconductive Tube Rack), **purple**
BCS-557	**Cooling Workstation System, pre-assembled open-platform, for use with PCR strip wells,** includes 1 x BCS-504 (Cooling Workstation System) and 1 x BCS-523 (Thermoconductive Tube Rack), **purple**

Cooling Workstation Single Capacity and Cooling Workstation Double Capacity Systems, pre-assembled

Ordering Information

BCS-576	**Cooling Workstation System, pre-assembled for use with 24 microtubes,** includes 1 x BCS-502 (Cooling Workstation) and 1 x BCS-535 (Thermoconductive Tube Rack), **purple**
BCS-575	**Cooling Workstation System, pre-assembled for use with 24 cryo tubes,** includes 1 x BCS-502 (Cooling Workstation) and 1 x BCS-534 (Thermoconductive Tube Rack), **purple**
BCS-570	**Cooling Workstation System, pre-assembled for use with PCR plates,** includes 1 x BCS-502 (Cooling Workstation) and 1 x BCS-529 (Thermoconductive Tube Rack), **purple**
BCS-572	**Cooling Workstation System, pre-assembled for use with PCR strip wells,** includes 1 x BCS-502 (Cooling Workstation) and 1 x BCS-523 (Thermoconductive Tube Rack), **purple**
BCS-573	**Cooling Workstation System, pre-assembled for use with PCR plates,** includes 1 x BCS-503 (Cooling Workstation), 1 x BCS-529 and 1 x BCS-535 (Thermoconductive Tube Rack), **purple**

Cooling Workstation for use with Smaller Thermoconductive Tube Rack Systems, pre-assembled

Ordering Information

BCS-133	**Cooling Workstation System, pre-assembled for use with microcentrifuge tubes,** 1 x BCS-130 (Cooling Workstation) and 1 x BCS-108 (Thermoconductive Tube Rack) included, **purple**
BCS-166	**Cooling Workstation System, pre-assembled for use with cryogenic vials and FACS tube modules,** 1 x BCS-130 (Cooling Workstation) and 1 x BCS-138 (Thermoconductive Tube Rack) included, **purple**

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