

HIGH TEMPERATURE CLOTH-FACED INFRARED PANEL HEATERS

From
\$295



- ✓ Most Popular
- ✓ 870°C (1600°F) Maximum Operating Temperature
- ✓ Black Quartz Ceramic Cloth Face
- ✓ Output Wavelength Between 2.5 and 6 Microns
- ✓ No External Reflectors Required

OMEGALUX® QF Series heaters are very popular infrared panel heaters used in a wide variety of applications. The QF series panel heaters' radiant surface is constructed through a patented process using bonded high temperature cloth quartz. A black coating is applied to the face of the heater for greater emissivity. A 2.5 cm (1") thick ceramic fiber refractory board is grooved out to support the precision resistance coils.

The resistance coil is then housed into the grooved-out refractory board. A layer of durable, high temperature, cement is used to bond the quartz face to the resistance coils as well as to the refractory coil support. The resistance coils used are an iron/chromium/aluminum alloy which can operate up to 1315°C (2400°F). These are then welded to stainless terminals which are routed to the back of the heater for external electrical connections. The welding insures the best possible electrical path. By changing to stainless buss bars and terminals, the conductivity is increased, insuring less heat buildup in the terminals. The heater board is then



Shown with the CN9000A Series Controller, from \$199.

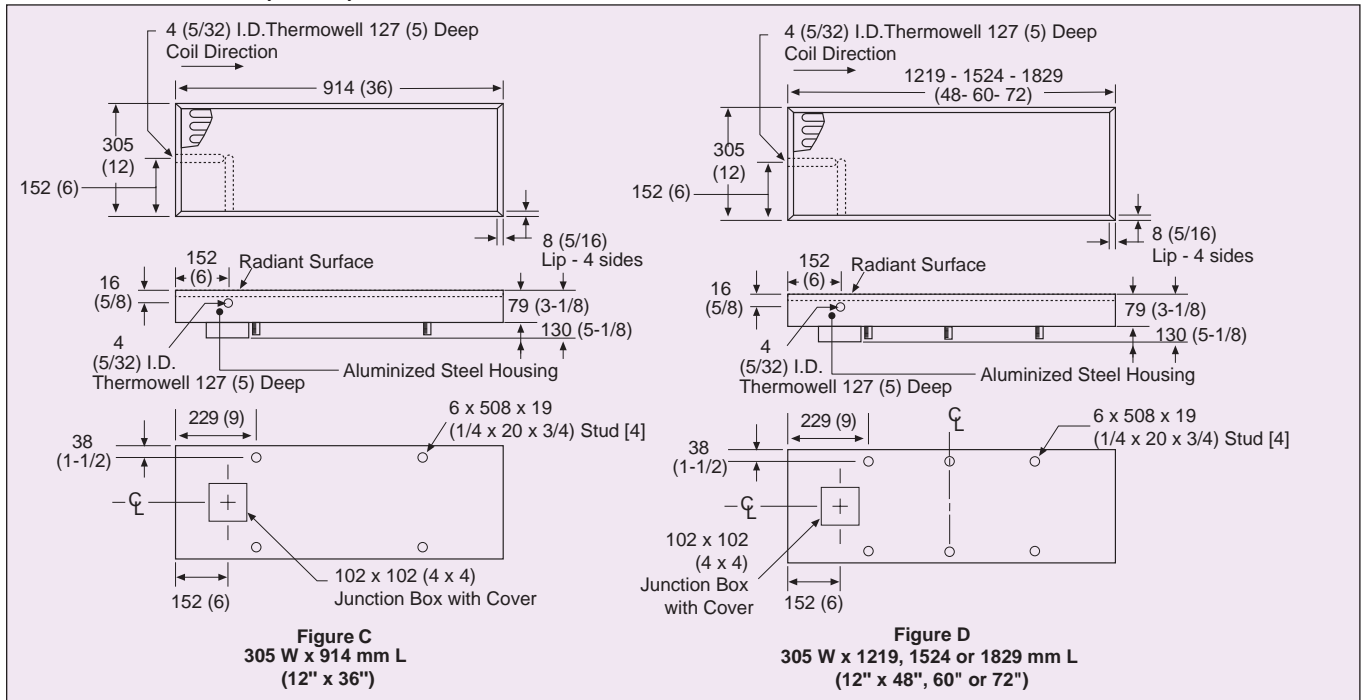
backed up by a high temperature insulation to prevent back heat loss. Finally, this is all packaged in a sturdy aluminized steel frame.

CHOOSING THE RIGHT IR HEATER

Not all infrared heaters are alike. Here is a list of some of the most important questions to answer when determining which heater to choose.

1. **RESPONSE TIME:** How quickly do heaters need to reach operating temperature? IR heaters can reach operating temperatures as quickly as 2 seconds or take as long as 1 hour. Most take between 5 seconds and 10 minutes.
2. **POWER REQUIREMENTS:** What watt density (usually referred to as watts per square inch) is required?
3. **ENVIRONMENT:** What will the ambient temperature be? Will there be any flux, fibers, hazardous chemicals, or any other matter disturbing the environment?
4. **CONTROL METHOD:** IR heaters can be controlled one of two ways: 1) having the heaters on a percentage timer (open loop) and 2) through the use of a temperature control (closed loop) method. The temperature control method is the most accurate way to control heaters and keep them at a consistent temperature. If you choose temperature control, you will have to decide whether to use a thermocouple or a pyrometer to measure temperature.
5. **PROCESS NEEDS:** Is it a conveyor, indexing, or a stationary process? Does the process call for a cleanable surface on the heater? Are zones in the individual heaters required? Compensation?
6. **APPLICATION PROCESS:** What exactly is the application? Are you trying to cure something? Melt something? Cook something, etc.?
7. **SPACE RESTRICTIONS:** Is space limited?

All Dimensions in mm (inches)



To Order (Specify Model Number)

Highlighted Models In Stock for Fast Delivery

Width cm (in.)	Length cm (in.)	Wattage	Voltage	Phase	Without Thermowell		With Thermowell		Dim. Reference	Weight kg (lb)
					Model Number	Price	Model Number	Price		
10 W/in²										
15 (6)	30 (12)	720	120	1	QF-061210	\$295	QF-061210-T	\$320	Fig. A	1.4 (3)
15 (6)	46 (18)	1080	120/240	1	QF-061810	338	QF-061810-T	355	Fig. B	2.0 (4.5)
15 (6)	61 (24)	1440	120/240	1	QF-062410	363	QF-062410-T	388	Fig. B	2.7 (6)
15 (6)	76 (30)	1800	120/240	1	QF-063010	395	QF-063010-T	420	Fig. B	3.4 (7.5)
15 (6)	91 (36)	2160	240/480	1	QF-063610	395	QF-063610-T	420	Fig. B	4.1(9)
15 (6)	122 (48)	2880	240/480	1	QF-064810	498	QF-064810-T	520	Fig. B	5.0 (11)
30 (12)	30 (12)	1440	240	1	QF-121210	363	QF-121210-T	388	Fig. E	2.7 (6)
30 (12)	46 (18)	2160	240/480	1	QF-121810	430	QF-121810-T	455	Fig. E	3.9 (8.5)
30 (12)	61 (24)	2880	240/480	1	QF-122410	495	QF-122410-T	520	Fig. E	5.0 (11)
30 (12)	76 (30)	3600	240/480	1	QF-123010	563	QF-123010-T	588	Fig. E	6.1 (13.5)
30 (12)	91 (36)	4320	240/480	1	QF-123610	630	QF-123610-T	655	Fig. C	6.8 (15)
30 (12)	122 (48)	5760	240/480	1	QF-124810	630	QF-124810-T	763	Fig. D	9.1 (20)
30 (12)	152 (60)	7200	240 or 480	3	QF-126010/*	900	QF-126010/*-T	925	Fig. D	11.8 (26)
30 (12)	183 (72)	8640	240 or 480	3	QF-127210/*	1030	QF-127210/*-T	1055	Fig. D	14.5 (32)
41 (16)	41 (16)	2560	240/480	1	QF-161610	468	QF-161610-T	493	Fig. F	4.5 (10)
61 (24)	61 (24)	5760	240 or 480	Dual	QF-242410/*	763	QF-242410/*-T	788	Fig. G	9.1 (20)
15 W/in²										
15 (6)	30 (12)	1080	120/240	1	QF-061215	295	QF-061215-T	320	Fig. A	1.4 (3)
15 (6)	46 (18)	1620	120/240	1	QF-061815	338	QF-061815-T	355	Fig. B	2.0 (4.5)
15 (6)	61 (24)	2160	240/480	1	QF-062415	363	QF-062415-T	388	Fig. B	2.7 (6)
15 (6)	76 (30)	2700	240/480	1	QF-063015	395	QF-063015-T	420	Fig. B	3.4 (7.5)
15 (6)	91 (36)	3240	240/480	1	QF-063615	430	QF-063615-T	455	Fig. B	4.1(9)
15 (6)	122 (48)	4320	240/480	1	QF-064815	495	QF-064815-T	520	Fig. B	5.0 (11)
30 (12)	30 (12)	2160	240/480	1	QF-121215	363	QF-121215-T	388	Fig. E	2.7 (6)
30 (12)	46 (18)	3240	240/480	1	QF-121815	430	QF-121815-T	455	Fig. E	3.9 (8.5)
30 (12)	61 (24)	4320	240/480	1	QF-122415	495	QF-122415-T	520	Fig. E	5.0 (11)
30 (12)	76 (30)	5400	240/480	1	QF-123015	563	QF-123015-T	588	Fig. E	6.1 (13.5)
30 (12)	91 (36)	6480	240	3	QF-123615/	630	QF-123615-T	655	Fig. C	6.8 (15)
30 (12)	122 (48)	8640	240 or 480	3	QF-124815/*	763	QF-124815/*-T	788	Fig. D	9.1 (20)
30 (12)	152 (60)	10800	240 or 480	3	QF-126015/*	900	QF-126015/*-T	925	Fig. D	11.8 (26)
30 (12)	183 (72)	12960	240 or 480	3	QF-127215/*	1030	QF-127215/*-T	1055	Fig. D	14.5 (32)
41 (16)	41 (16)	3840	240/480	1	QF-161615	468	QF-161615-T	493	Fig. F	4.5 (10)
41 (16)	61 (24)	5760	240 or 480	Dual	QF-162415/*	585	QF-162415/*-T	610	Fig. F	6.6 (14.5)
61 (24)	61 (24)	8640	480	Dual	QF-242415/480	763	QF-242415/480-T	788	Fig. G	9.1 (20)

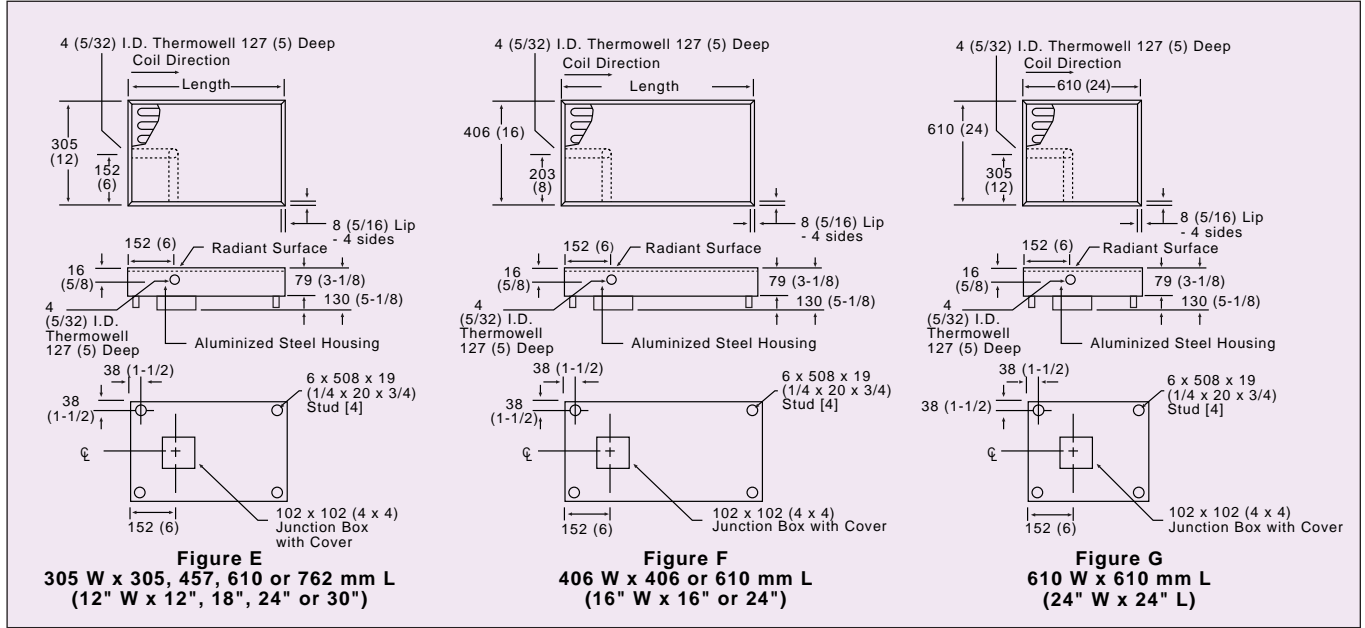
Comes with mounting hardware and complete operator's manual

*Specify voltage, i.e. insert **240** for 240 V or **480** for 480 V

Ordering Example: Model QF-061810, 15 x 46 cm (6" x 18") 1080 Watt heater with 10 W/in² Watt density that may be powered by either 120 Vac or 240 Vac single phase, **\$338**.



All Dimensions in mm (inches)



To Order (Specify Model Number)

 Highlighted Models In Stock for Fast Delivery

Width cm (in.)	Length cm (in.)	Wattage	Voltage	Phase	Without Thermowell		With Thermowell		Dim. Reference	Weight kg (lb)
					Model Number	Price	Model Number	Price		
20 W/in²										
15 (6)	30 (12)	1440	120/240	1	QF-061220	\$295	QF-061220-T	\$320	Fig. A	1.4 (3)
15 (6)	46 (18)	2160	240/480	1	QF-061820	338	QF-061820-T	355	Fig. B	2.0 (4.5)
15 (6)	61 (24)	2880	240/480	1	QF-062420	363	QF-062420-T	388	Fig. B	2.7 (6)
15 (6)	76 (30)	3600	240/480	1	QF-063020	395	QF-063020-T	420	Fig. B	3.4 (7.5)
15 (6)	91 (36)	4320	240/480	1	QF-063620	430	QF-063620-T	455	Fig. B	4.1(9)
15 (6)	122 (48)	5760	240/480	1	QF-064820	495	QF-064820-T	520	Fig. B	5.0 (11)
30 (12)	30 (12)	2880	240/480	1	QF-121220	363	QF-121220-T	388	Fig. E	2.7 (6)
30 (12)	46 (18)	4320	240/480	1	QF-121820	430	QF-121820-T	455	Fig. E	3.9 (8.5)
30 (12)	61 (24)	5760	240/480	1	QF-122420	495	QF-122420-T	520	Fig. E	5.0 (11)
30 (12)	76 (30)	7200	240 or 480	3	QF-123020/*	563	QF-123020/*-T	588	Fig. E	6.1 (13.5)
30 (12)	91 (36)	8640	240 or 480	3	QF-123620/*	630	QF-123620/*-T	655	Fig. C	6.8 (15)
30 (12)	122 (48)	11520	240 or 480	3	QF-124820/*	763	QF-124820/*-T	788	Fig. D	9.1 (20)
30 (12)	152 (60)	14400	240 or 480	3	QF-126020/*	900	QF-126020/*-T	925	Fig. D	11.8 (26)
30 (12)	183 (72)	17280	240 or 480	3	QF-127220/*	1030	QF-127220/*-T	1055	Fig. D	14.5 (32)
41 (16)	41 (16)	5120	240 or 480	Dual	QF-161620/*	468	QF-161620/*-T	493	Fig. F	4.5 (10)
41 (16)	61 (24)	7680	480	Dual	QF-162420/480	585	QF-162420/480-T	610	Fig. F	6.6 (14.5)
61 (24)	61 (24)	11520	480	Dual	QF-242420/480	763	QF-242420/480-T	788	Fig. G	9.1 (20)
25 W/in²										
15 (6)	30 (12)	1800	120/240	1	QF-061225	295	QF-061225-T	320	Fig. A	1.4 (3)
15 (6)	46 (18)	2700	240/480	1	QF-061825	338	QF-061825-T	355	Fig. B	2.0 (4.5)
15 (6)	61 (24)	3600	240/480	1	QF-062425	363	QF-062425-T	388	Fig. B	2.7 (6)
15 (6)	76 (30)	4500	240/480	1	QF-063025	395	QF-063025-T	420	Fig. B	3.4 (7.5)
15 (6)	91 (36)	5400	240/480	1	QF-063625	430	QF-063625-T	455	Fig. B	4.1(9)
15 (6)	122 (48)	7200	240/480	1	QF-064825	495	QF-064825-T	520	Fig. B	5.0 (11)
30 (12)	30 (12)	3600	240/480	1	QF-121225	363	QF-121225-T	388	Fig. E	2.7 (6)
30 (12)	46 (18)	5400	240/480	1	QF-121825	430	QF-121825-T	455	Fig. E	3.9 (8.5)
30 (12)	61 (24)	7200	240 or 480	3	QF-122425/*	495	QF-122425/*-T	520	Fig. E	5.0 (11)
30 (12)	76 (30)	9000	240 or 480	3	QF-123025/*	563	QF-123025/*-T	588	Fig. E	6.1 (13.5)
30 (12)	91 (36)	10800	240 or 480	3	QF-123625/*	630	QF-123625/*-T	655	Fig. C	6.8 (15)
30 (12)	122 (48)	14400	240 or 480	3	QF-124825/*	763	QF-124825/*-T	788	Fig. D	9.1 (20)
30 (12)	152 (60)	18000	240 or 480	3	QF-126025/*	900	QF-126025/*-T	925	Fig. D	11.8 (26)
30 (12)	183 (72)	21600	240 or 480	3	QF-127225/*†	1030	QF-127225/*-T	1055	Fig. D	14.5 (32)
41 (16)	41 (16)	6400	240 or 480	Dual	QF-161625/*	468	QF-161625/*-T	493	Fig. F	4.5 (10)
41 (16)	61 (24)	9600	480	Dual	QF-162425/480	585	QF-162425/480-T	610	Fig. F	6.6 (14.5)
61 (24)	61 (24)	14400	480	Dual	QF-242425/480	763	QF-242425/480-T	788	Fig. G	9.1 (20)

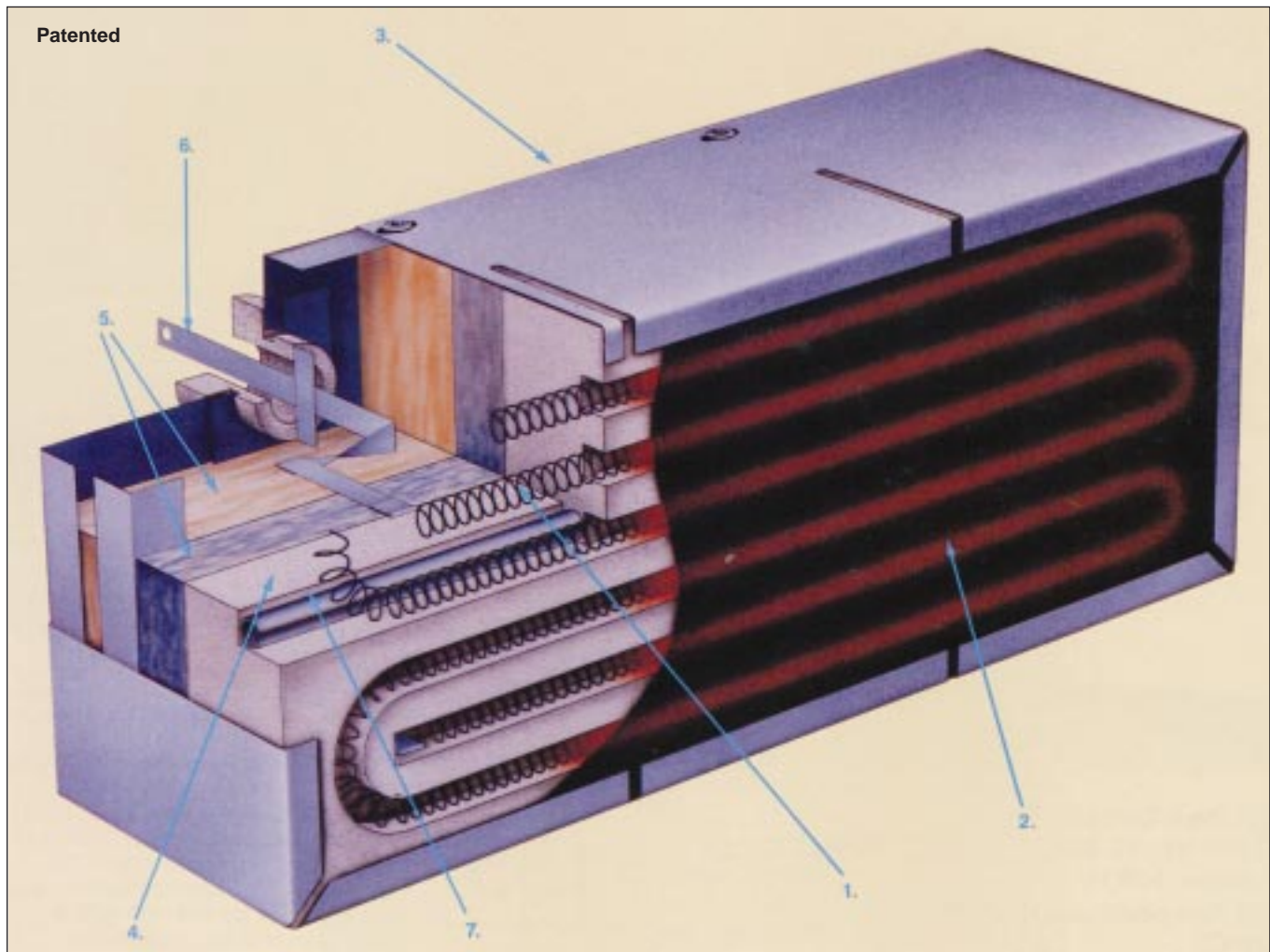
Comes with mounting hardware and complete operator's manual

*Specify voltage, i.e. insert **240** for 240 V or **480** for 480 V

† This heater has two junction boxes at opposite ends of the panel

Ordering Example: Model QF-123625/240, 30 x 91 cm (12" x 36") 10800 Watt 3-phase heater with 25 W/in² Watt density, 240 Vac, **\$655.**

QF SERIES INFRARED PANEL HEATERS



CONSTRUCTION

1. Heater Element: precision iron/chrome/ aluminum resistance wire, designed for uniform emission over entire heating surface and extended life.
2. Surface: rugged black woven ceramic cloth for high radiant energy transfer.
3. Frame: heat resistant, heavy gauge aluminized steel.
4. Heater Element Support: grooved ceramic fiber refractory board is used to support precision coil resistance wire. This helps to insulate the heater as well as reflect the infrared energy onto the application.
5. High Temperature Insulation: to minimize heat loss from the back of the heater.
6. Stainless Steel Terminals: all welded construction, for easy power connection.
7. Optional Quartz Thermowell: high temperature 4 mm (5/32") diameter 127 mm (5") long quartz thermowell, with strain relief.

APPLICATIONS

- ✓ Paint Drying
- ✓ Plastic Forming
- ✓ Wave Soldering
- ✓ Silk Screening
- ✓ Laminating
- ✓ Moisture Removal
- ✓ Thermo Forming

SPECIFICATIONS

Maximum Temperature Emitter Face: 870°C (1600°F)

Power: 120, 240, 480 Vac single and dual voltage, 1 phase, 3 phase and dual phase

Wattage: 720-21,600 watts

Watt Density: 10, 15, 20, and 25 W/in²

Enclosure: Heavy gauge aluminized steel

Note: QF series heaters are intended for "radiant" heat. Never let material to be heated come into direct contact with the face of the heater. It is recommended that overtemperature control be used to prevent overheating.

CAUTION AND WARNING!

Fire and electrical shock may result if products are used improperly or installed or used by non-qualified personnel.

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