

# Use Case

## Food grade motor housing: Industry leading safety and reliability

### Executive summary

ECR<sup>®</sup> 2 motors are available with an IP67 rated food grade housing. This not only protects the motor's normal operation but ensures normal sanitation and cleaning processes that won't cause damage. Best of all, this protection is often accomplished at a similar cost to a traditional EC motor.

### Challenges

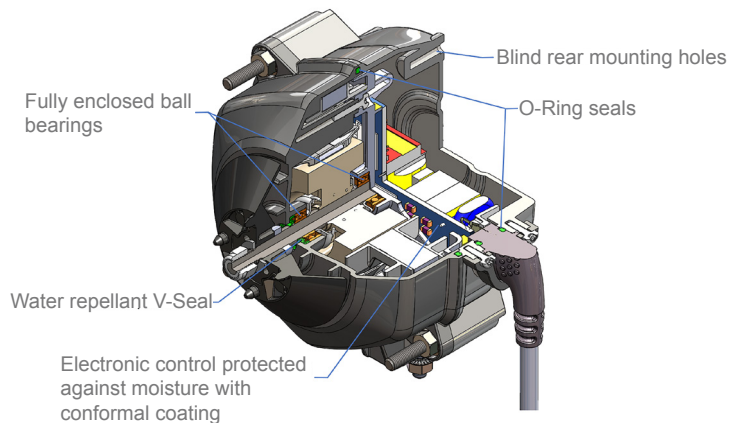
Motors used in foodservice applications, such as coolers, freezers, and food-related equipment, should be protected from their rough operating environments without contaminating any food products. Practically speaking, this means they cannot leach any lubricants or materials that would not be safe for human ingestion, through condensation, for example.



### Universal ECR 2 increases versatility in food service applications

Wellington's **ECR 2** motors are made with a special corrosion-proof, safe, food-grade plastic, which ensures compliance with NSF requirements.

Unique to the foodservice refrigeration industry, they also come standard with IP67 rated protection. This means each motor has multiple redundant protective features around the shaft, cable connection, and all seams that protect the motors from dust infiltration. The protections are so effective, the motor has even been demonstrated to operate effectively underwater for more than 30 minutes without issue – exceeding IP67 requirements. Best of all, this level of protection is offered at a similar price as a traditional EC motor.








You work hard to build and protect your brand's name and reputation, yet component failures add unnecessary costs and can erode years of work. With customers on six continents and over 30 years of experience behind us, Wellington is focused on producing the best refrigeration system motors in the world.

**Doesn't your brand deserve the best motors for your products?**



## Let's make the world better

Wellington exists to deliver trusted technology for the real world, that solves our customers unique problems. We believe that by collaborating with our OEM partners and placing our technology in every location, we will ensure a sustainable future with safe food, beverages, and medicine for our families and future generations. We invite you to learn more about how Wellington can partner with you and build a better world together.

Specifications	
Input voltage range	70-264V, 50-60Hz (all models)
Output power range	0-13W
Speed range	300-1800 RPM
Max. input power	20.5W
Max. input current	0.10A (@230V), 0.20A (@115V)
Power factor	Up to 0.95 depending on load and voltage
EMC protection	4000V (per EN61000-6-2)
Noise	SWL 37 dBA @ 1300 RPM (per ISO1680)
Insulation class	Class A (105°C)
Thermal protection	Electronic protection. Locked rotor and automatic thermal derating also included
Refrigerant compatibility	HFC, CO2 and hydrocarbon (per IEC60335-2-89 Annex BB)
ATEX (EX)	IEC 60079-15 Group 2, Category 3G
IP rating	IP67
Operating temp. range	-30°C to +50°C (-22°F to +122°F)
Storage temp. range	-40°C to +80°C (-40°F to +176°F)
Weight	0.54kg (1.2lb)
Approvals	    

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