

APPLICATION FOR OSHPD SPECIAL SEISMIC	OFFI	CE USE ONLY
<b>CERTIFICATION PREAPPROVAL (OSP)</b>	APPLICATION #:	OSP – 0353 – 10
OSHPD Special Seismic Certification Preapproval (OSP)		
Type: 🛛 New 🗌 Renewal		
Manufacturer Information		
Manufacturer: _ Seeley International Pty Ltd		
Manufacturer's Technical Representative: Michael Kozuch		
Mailing Address: 112 OSullivan Beach Road, South Australia, Australia	a	
Telephone: 602-353-8066 Email: mkozu	ch@seeleyinternationa	al.com
Product Information		
Product Name: Climate Wizard Packaged Air Conditioning Units		
Product Type: _ Packaged Air Conditioning Units		
Product Model Number: <u>CW-H15</u> (List all unique product identification numbers and/or part numbers) AC powered HVAC unit with indirect evaporative details.	cooling. See attachme	ent for complete product
Mounting Description: Rigid Base Mount		
Applicant Information		
Applicant Company Name: Seeley International Pty Ltd		
Contact Person: Michael Kozuch		
Mailing Address: 112 OSullivan Beach Road, South Australia, Australia	a	
Telephone: 602-353-8066 Email: mkozu	ch@seeleyinternationa	al.com
I hereby agree to reimburse the Office of Statewide Health P accordance with the California Administrative Code, 2013.	anning and Develo	pment review fees in
Signature of Applicant:	Da	te: <u>7/23/13</u>
Title: Sales Engineer Company Name: Seeley	International Pty Ltd	
"Access to Safe. Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"	MMM	osDpd
STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY OSH-FD-759 (REV 1/24/13)	. 111.	Page 1 of 3



California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)								
Company Name:MRH Structural Engineers, Inc								
Name: Mohammad Hariri, S.E California License Number: SE3545								
Mailing Address: 1411 N. Batavia Street, Ste. 121, Orange, CA 92867								
Telephone: 714-633-6302 Email: Mrh_se@sbcglobal.net								
Supports and Attachments Preapproval								
<ul> <li>Supports and attachments are preapproved under OPM- (Separate application for OSHPD Preapproval of Manufacturer's Certification (OPM) of Supports and attachments is required)</li> <li>Supports and attachments are not preapproved</li> </ul>								
Certification Method								
<ul> <li>Testing in accordance with: ICC-ES AC156</li> <li>Other (Please Specify):</li> </ul>								
Testing Laboratory								
Company Name:ANCO Engineers, Inc.								
Contact Name: Paul Ibanez								
Mailing Address: <u>1965A 33<sup>rd</sup> St., Boulder, CO 80301</u>								
Telephone: 303-443-7580 x239 Email: paul@ancoengineers.com								

osDpd



# OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

Seismic Parameters
Design in accordance with ASCE 7-10 Chapter 13: 🛛 Yes 🗌 No
Design Basis of Equipment or Components $(F_p/W_p) = 1.8$
$S_{DS}$ (Design spectral response acceleration at short period, g) = _2.5
$a_p$ (In-structure equipment or component amplification factor) = <u>1.0</u>
$R_p$ (Equipment or component response modification factor) = _2.5
$\Omega_0$ (System overstrength factor) = _2.5
$I_p$ (Importance factor) = 1.5
z/h (Height factor ratio) = _1
Equipment or Component Natural Frequencies (Hz) = <u>See Attachments.</u>
Overall dimensions and weight (or range thereof) = <u>See Attachments.</u>
Equipment or Components @ grade designed in accordance with ASCE 7-10 Chapter 15: 🛛 Yes 🖂 No
Design Basis of Equipment or Components (V/W) =
S <sub>DS</sub> (Design spectral response acceleration at short period, g) =
S <sub>D1</sub> (Design spectral response acceleration at 1 second period, g) =
R (Response modification coefficient ) =
$\Omega_0$ (System overstrength factor) =
C <sub>d</sub> (Deflection amplification factor) =
$I_p$ (Importance factor) = 1.5
Height to Center of Gravity above base =
Equipment or Component Natural Frequencies (Hz) =
Overall dimensions and weight (or range thereof) =
Tank(s) designed in accordance with ASME BPVC, 2010: 🗌 Yes 🛛 No
List of Attachments Supporting Special Seismic Certification
🖂 Test Report(s) 🛛 Drawings 🔄 Calculations 🖾 Manufacturer's Catalog
Other(s) (Please Specify): See Attachments
OSHPD Approval (For Office Use Only) – Approval Expires on December 31, 2019
Signature: August 20, 2013
Print Name: Timothy J. Piland Title: SSE
Special Seismic Certification Valid Up to : $S_{DS}(g) = 2.5$ $z/h = 1.0$
Condition of Approval (if applicable):
"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"
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# 3334.01 Seeley International UUT Summary and CPM

	Y								Ul	<b>JT #</b> :	1	
<b>ANCO</b> <i>Engineers, Inc.</i> Unit Under Test (U				(UU1	Г)							
1965A 33rd St												
Boulder, CO 80		1		Summary Sheet								
(303)443-7580	)							A	NCO P	roject Nu	mbe	er: 3334.01
Manufacturer	:	Seeley Inte	rnational	Pty Lt	d							
Model Line:		Climate Wi	zard Air Co	onditi	oners							
Model Numbe	er:	CW-H15										
Product		Painted Alu									-	•
Construction		and water r	eservoir v	with p	umps. Unit	was	tested wit	th res	ervoir	full of wa	ter.	
Summary:												
Options/		None. Sold	one. Sold as tested.									
Subcomponen	t											
Summary:												
	_				UUT Prope	rties						
Weight (Ib)		mensions (in					Lowest N				<u>1</u>	
		epth	Width		Height		Front-Ba	ck	Side-		Ve	ertical
822	78		71.8		69.4		12			12		28
					assed Seisn	1	2	1				
Building Code	_	est Criteria	S <sub>DS</sub>	z/h	I <sub>P</sub>		A <sub>FLX-H</sub>	A <sub>RIG</sub>	-H	A <sub>FLX-V</sub>		A <sub>RIG-V</sub>
CBC 2013		CC-ES AC-156	2.5	1	1.5	4	4.0	3.0		1.68		0.68
Test Mounting	g De		K					T				

12 grade 8 5/16"-18 bolts were used to hold the base frame to the table. The Base frame is an integral part of the UUT and will always be used. Manufacturer provided hardware was used to attach the cooler to the base frame.

Form: UUT, revision 0.0

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# 3334.01 Seeley International UUT Summary and CPM

## Table 2.1: Seeley International Certified Product Matrix

	Dime	ensions (in)		Weight (lb)	Mounting	Tested/	Result	
Part Number	Length	Width	Height		wounting	Interpolated	Nesun	
Climate Wizard Indirect Evaporative Cooler								
CW-H15	78.20	71.80	69.40	822	Rigid Base	UUT#1	PASS <sup>1</sup>	

#### Table 2.2: Shake Table Test Parameters

BUILDING	TEST	S (a)	z/h	HORIZ	ONTAL	VERTICAL	
CODE	CRITERIA	S <sub>DS</sub> (g) z/h	A <sub>FLX-H</sub>	A <sub>RIG-H</sub>	A <sub>FLX-V</sub>	A <sub>RIG-V</sub>	
CBC 2013	ICC-ES AC156	2.5	1	4	3	1.67	0.67

### Table 2.3: UUT Resonance Frequency

UUT	RESONANCE FREQUENCY (Hz)						
Identification	Front-to-Back	Side-to-Side	Vertical				
1	12	12	28				

1. Note that PASS indicates that the tested unit passed all functional tests and maintained structural integrity after the ICC-ES AC 156 test.