



Town of Washington
Zoning Board of Appeals
 P. O. Box 383
 Washington Depot, CT 06794
 Land Use Office: 860-868-0423

ZBA USE ONLY:

Appl. # ZBA- 1144
 Date Rec'd 8/24/2022
 Fees Paid yes
 Cash/Chk # _____
 Chk writer _____

PETITION FOR SPECIAL EXCEPTION for Noise Generating Equipment;
a request for generators, air conditioners, pool filters, etc. to be situated farther from the structure
principally served than is specified under section 12.14 of the Zoning Regulations.

APPLICANT INFORMATION

(If there are two or more applicants, provide the following information for each)

Name: Michael James Dunn & Pamela Marie Dunn
 Home Address: 19 Hifield Drive Washington Depot, CT 06794
 Business Address: N/A
 Home Phone: (307)413-9973 & (307)690-0634 Business Phone: N/A
 Email Address: pamela@dunnjh.com & mike@dunnjh.com

PROPERTY INFORMATION

Street Address: 19 Hifield Drive Washington Depot, CT 06794
 Assessor's Lot No.: 05 10 02 Zoning District(s): R1 Acreage of Property: 3
 Owner(s) of Record: Michael James Dunn & Pamela Marie Dunn, Trustees
 Home Address: 19 Hifield Drive Washington Depot, CT 06794
 Business Address: N/A
 Home Phone: (307)413-9973 & (307)690-0634 Business Phone: N/A

Record Owner(s) Deed is filed in the Land Records at: Vol. _____ Page _____
 Is the property located within 500 feet of any town line? Yes _____ No X

 Signature of Owner (if Owner is not the Applicant)

PRIOR APPEALS OR APPLICATIONS

Have any variances been granted to this property in whole or in part? Yes _____ No X

If yes, attach to this application a copy of each such variance and state the volume and page at which each such variance is recorded in the Land Records. Vol. _____ Page _____

EXPLANATION OF REQUEST FOR SPECIAL EXCEPTION

In the spaces below, explain why placing the noise generating equipment in the proposed location would have less noise impact on neighboring properties than would placing it in accordance with Section 12.14. The explanation should include a description of the proposed location, the operating specifications of the proposed equipment, including noise rating, and the special circumstances that make the special exception necessary. Attach additional sheets, if needed. **The applicant has the burden of proving to the board that the requested special exception is justified.**

See Attached

ADDITIONAL REQUIREMENTS

The applicant must submit:

1. **One original** and eight copies of a class "A-2" **survey** indicating all existing and proposed structures, septic systems, wells and water sources, easements, rights of way and legal restrictions, as well as all measurements and distances, needed to show the extent and nature of the requested special exception.
2. **Building and Elevation (if applicable) Plans** giving complete details with scaled measurements (see "Guidelines" for explanation).
3. **Filing fees** of \$150 and \$60, in separate checks, payable to the Town of Washington.
4. **Required by hearing date:** Evidence of certificate of mailing to the owners of all property located within 200 feet of the property involved in this application, notifying them of the date, time and location of the hearing and the nature of the requested special exception.
5. **Signed Letter of Representation** (if applicable)

CERTIFICATION

I hereby certify that the information I have provided in this application, including any attached sheets, is true, and I acknowledge that any false information may cause the denial or revocation of a Special Exception.




Signature of Applicant

**EXPLANATION OF REQUEST FOR SPECIAL EXCEPTION
DUNN – 19 HIFIELD DRIVE WASHINGTON DEPOT, CT 06794**

We are seeking approval to place our pool pad and equipment approximately 62.9' away from our proposed pool and 114.1' from the closest property line. The 16' x 28' pool would be positioned more than 45' from the closest property line where a solid 8' privacy fence was installed in 2021. The pool equipment would be positioned on the east side of the house in front of a tall cement chimney and would be surrounded by sound limiting fencing and shrubbery. We have included both the A2 survey and a magnified section of the pool and pool equipment area for your consideration.

We have selected this location in order to situate the equipment: 1) closer to the propane tank, 2) farther from the closest neighbor, and 3) in the least visible location for the property. While this placement is outside the 50' maximum stipulated in regulation 12.14, it is 114.1' from the closest property line which ensures that there will be less noise impact for our neighbor than had the equipment been placed within 50' of the pool.

The primary noise making pool equipment components are the pump, a Hayward Super Pump model VS700, and the heater, a Raypak model 266A. We have included operating specifications for both sets of equipment as Exhibit A, but, unfortunately, neither Hayward nor Raypak include noise rating information for their equipment. In the absence of manufacturer data, Darryl Nitke of Cagenio Home Technology, LLC performed a noise level assessment at a pool which uses the same Hayward pump and Raypak heater combination. Mr. Nitke took dB measurements at various distances from the equipment in order to demonstrate the potential noise levels that could be expected with our proposed equipment. An affidavit with his findings has been included as Exhibit B. Based on this data, we believe that placing the pool equipment 114.1' from the closest property line should result in a dB level significantly less than the 50dB exception level stipulated in regulation 12.14.4 and within the spirit of the regulation which we understand was intended to protect our neighbors from noise.



We Build Better.

Super Pump® VS 700

Ultra-High Efficiency Pumps

SUPERIOR DURABILITY FROM THE NAME YOU KNOW AND TRUST

Intuitive control pad can be rotated in four directions on the pump or removed and wall mounted



Upgraded dual-voltage motor drive delivers 30% quieter high-speed operation than other models

Permanent magnet, totally enclosed fan-cooled motor combines unmatched efficiency and reliability



110 cubic-inch strainer basket holds more debris

Exclusive swing-away hand knobs make for easy strainer cover removal without tools

Chemical-resistant Viton® seal offers improved resistance against chemical imbalances

Wing nut drain plugs are easy to open and close for winterizing

EXPERT LINE®
NOT SOLD ONLINE



EASY UPGRADE FOR ANY POOL

Super Pump VS 700 is a simple drop-in upgrade for Super Pump single-speed pumps up to 1.5 HP. Built with dual-voltage capability, it offers the savings of a VS pump without requiring costly rewiring.



ENERGY-EFFICIENT DESIGN

Built with a chemical-resistant Viton seal and accompanied by a 3-year extended warranty, Super Pump VS 700 offers powerful protection for years of reliable performance.



UNIVERSAL CONTROLLER COMPATIBILITY

Super Pump VS 700 can operate in standalone mode or with any automation system—including OmniLogic® and other Hayward systems.



SPECIFICATIONS

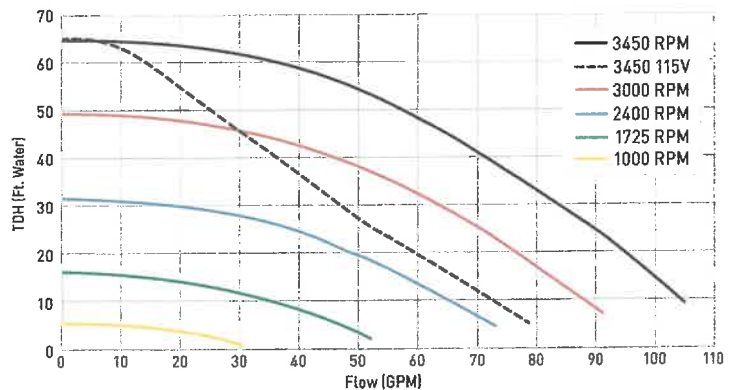
MODEL NUMBER	TOTAL HP	VOLTAGE	WEIGHTED ENERGY FACTOR (WEF)*	WARRANTY
SP2670020VSP	1.65	115V/230V	10.9/8.0	3 years**

*The higher the weighted energy factor (WEF), the more efficient the pump. Visit hayward.com/regulations for more information.

SUPER PUMP VS 700 DIMENSIONS (INCHES)



SUPER PUMP VS 700 PERFORMANCE COMPARISON



Super Pump VS 700 series pumps are listed by:

**When sold by a Totally Hayward® partner. Exclusions, other terms and conditions may apply — visit hayward.com/expert for details.

» hayward.com » 1-888-HAYWARD | Pumps » Filters » Heaters » Sanitization » Automation » Lighting » Water Features » Cleaners » Safety

MODERN
DESIGN AND
CONSTRUCTION

DYNAMIC
SELF-DIAGNOSTIC
CONTROLS

FEATURING
PROTEK SHIELD™

AVAILABLE AS
ATMOSPHERIC, LOW NO_x,
AND ASME

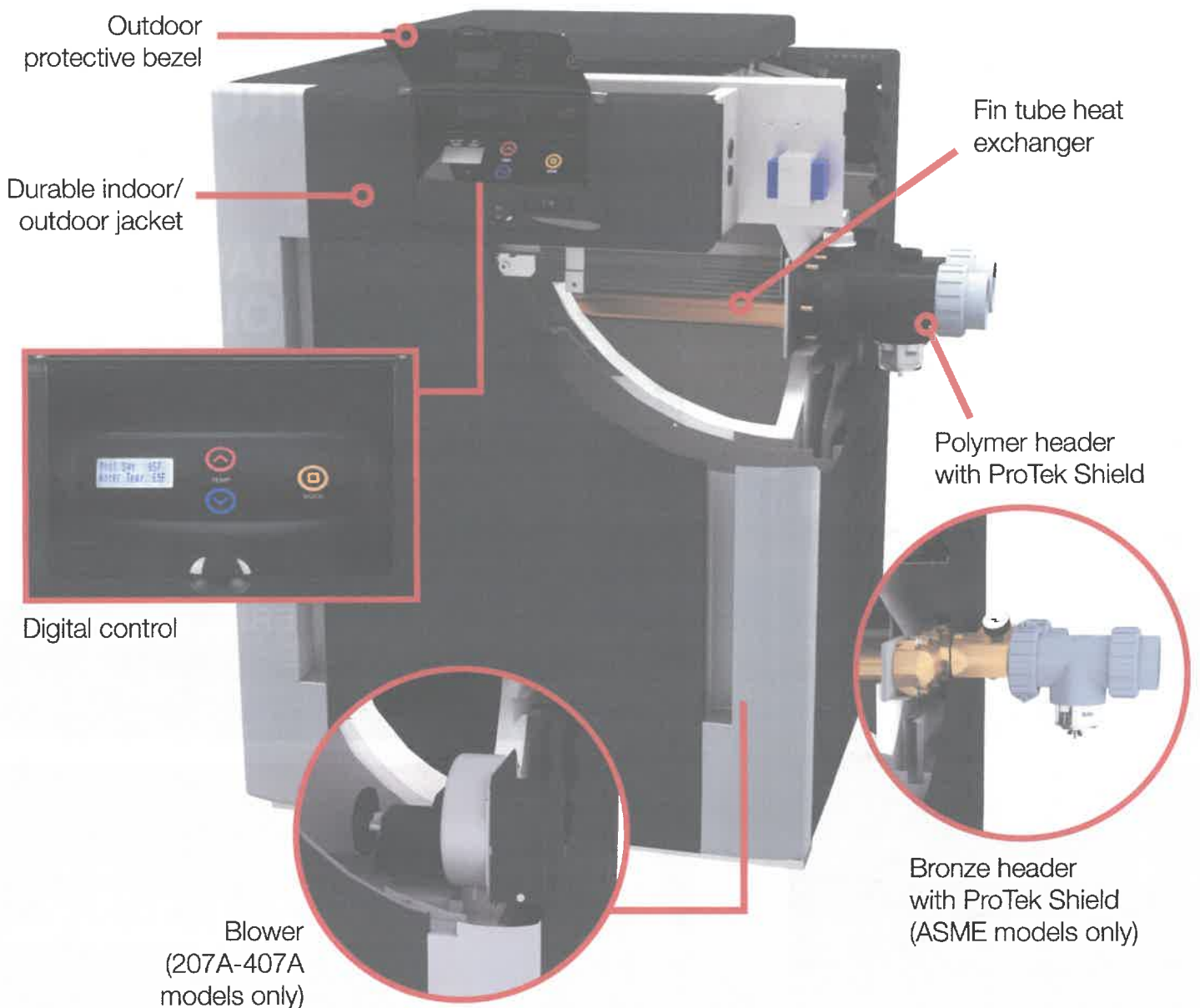


Raypak®
A Rheem® Company

RELAXATION

Soak it all in, you deserve this.

The sleek and stylish Raypak Digital Gas Pool and Spa Heater is available in Atmospheric, Low NOx and ASME models. The Digital Gas Pool and Spa Heaters feature innovative technology designed to keep your pool or spa at the perfect temperature for your enjoyment. Built to withstand various weather conditions, this modern pool and spa heater is the perfect solution for environments requiring efficiency, convenience and versatility. Whether upgrading your existing system or adding a new pool or spa to your home, our heater offers you flexible installation solutions. Thanks to a brilliant low-profile design, corrosion resistant cabinet made of galvanized metal, copper or cupronickel fin tube heat exchanger, and a bevy of advanced-engineered materials you will be able to enjoy your heater year round.



STARTS HERE.

ProTek Shield

ProTek Shield is a cutting-edge module that protects the heat exchanger and extends the life of your Raypak Digital Gas Pool and Spa Heater. Rest, soak or swim knowing that your pool heater investment can be enjoyed even longer thanks to this innovative, patent-pending technology.

- Excellent for use in chlorinated and salt water pools
- Engineered to take the brunt of the corrosion that naturally occurs over time (erosion of the ProTek Shield means it's working!)
- Utilizes breakthrough patent pending technology
- Compact design
- Easy to replace, saving you time and money
- Included on all models



More Amazing Features



Heat Exchanger

Our Digital Gas Pool and Spa Heater includes various application options based on fin tube materials including: copper and cupronickel, both available as ASME.

Bronze ASME headers provide the strength needed to meet commercial code requirements.



Low NO_x Certified

Available on our Digital Gas Pool and Spa Heater Low NO_x (207A-407A) models, the air fuel mixture is maintained by a gas valve/blower system that allows the heater to always burn clean and safe.

Bonus: Meets additional safety standards and regulations required for Texas, California and Utah.



Flexible Installation

Whether upgrading your existing system or adding a new pool or spa to your home, the Raypak Digital Gas Pool and Spa Heater offers you flexible installation solutions.

Bonus: The self-adjusting burner compensates for gas pressure fluctuations, ensuring that the heater will always burn clean and safe.

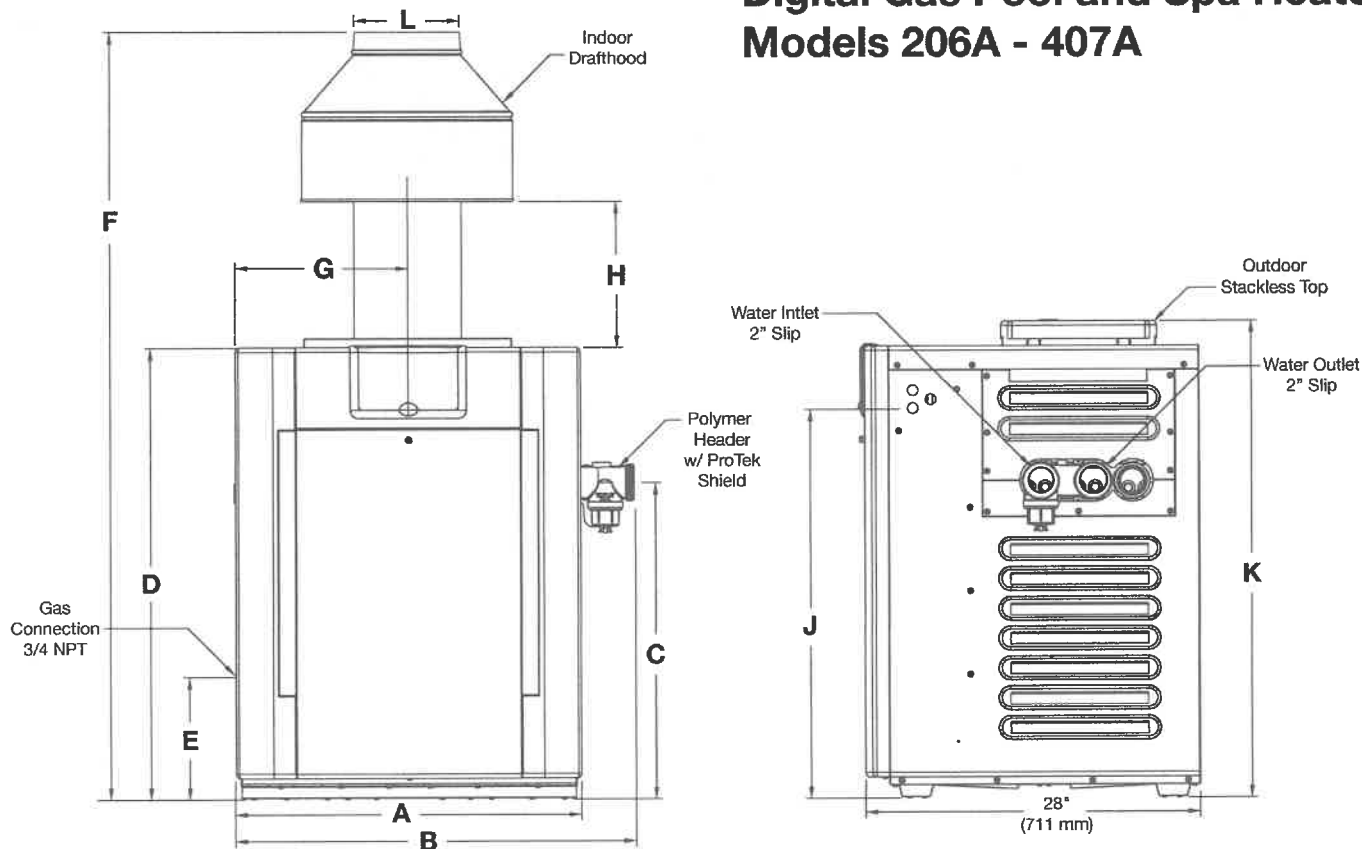


Digital Controls

Equipped with an intelligent control system that can easily be tied into an existing remote system, our heater also features a microprocessor-controlled thermostat for setting the perfect temperature for your pool or spa.

Learn more at raypak.com

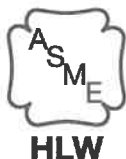
Digital Gas Pool and Spa Heater Models 206A - 407A



Model	MBTUH		Dimensions in. (mm)													Est. Ship Weight lbs. (kg)		
	Copper Input	Cupronickel Input	A Cabinet Width	B	C w/ Polymer Headers	C w/ Bronze Headers	D Cabinet Height	E	F	G	H	J	K	L Flue Ø	w/ Polymer Headers and Stackless Top	w/ Bronze Headers and Stackless Top	Indoor Draft-hood	
Atmospheric	206A	199,500	180,000	20 (508)	24-1/4 (616)	26-5/8 (676)	25-15/16 (660)	38 (965)	13-1/4 (337)	61-5/8 (1565)	10 (254)	11-3/4 (298)	32-11/16 (830)	40 (1016)	6 (152)	187 (85)	206 (94)	14 (6.4)
	266A	266,000	240,000	23 (584)	27-1/4 (692)	26-5/8 (676)	25-15/16 (660)	38 (965)	13-1/4 (337)	62 (1575)	11-1/2 (292)	11 (279)	32-11/16 (830)	40 (1016)	7 (178)	210 (95)	229 (104)	16 (7.3)
	336A	332,500	300,000	26 (660)	30-1/4 (768)	26-5/8 (676)	25-15/16 (660)	38 (965)	13-1/4 (337)	63 (1600)	13 (330)	10-5/8 (270)	32-11/16 (830)	40 (1016)	8 (203)	230 (104)	249 (113)	19 (8.6)
	406A	399,000	360,000	29 (737)	33-1/4 (845)	26-5/8 (676)	25-15/16 (660)	38 (965)	13-1/4 (337)	64-9/16 (1640)	14-1/2 (368)	12-1/8 (308)	32-11/16 (830)	40 (1016)	9 (229)	249 (113)	268 (122)	21 (9.5)
Low NO _x	207A	199,500	N/A	20 (508)	24-1/4 (616)	20-1/2 (521)	19-13/16 (503)	31-13/16 (792)	7-3/4 (197)	55-5/8 (1413)	10 (254)	11-3/4 (298)	26-1/2 (673)	34 (867)	6 (152)	174 (79)	193 (88)	14 (6.4)
	267A	266,000	N/A	23 (584)	27-1/4 (692)	20-1/2 (521)	19-13/16 (503)	31-13/16 (792)	7-3/4 (197)	56 (1422)	11-1/2 (292)	11 (279)	26-1/2 (673)	34 (867)	7 (178)	197 (89)	216 (98)	16 (7.3)
	337A	332,500	N/A	26 (660)	30-1/4 (768)	20-1/2 (521)	19-13/16 (503)	31-13/16 (792)	7-3/4 (197)	57 (1448)	13 (330)	10-5/8 (270)	26-1/2 (673)	34 (867)	8 (203)	219 (99)	238 (108)	19 (8.6)
	407A	399,000	N/A	29 (737)	33-1/4 (845)	20-1/2 (521)	19-13/16 (503)	31-13/16 (792)	7-3/4 (197)	58-1/2 (1486)	14-1/2 (368)	12-1/2 (318)	26-1/2 (673)	34 (867)	9 (229)	237 (108)	256 (116)	21 (9.5)

Models	Amp Draw ¹	
	120V AC	240V AC
206A-406A	4	2
207A-407A	6	3

¹ Single phase, 60 Hz.



www.raypak.com

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AFFIDAVIT IN SUPPORT OF ZONING APPLICATION BY MR. & MRS. DUNN

I, Darryl Nitke, managing member of Cagenio LLC hereby swear and affirm that the following facts are true to the best of my knowledge:

- 1) Cagenio is an authorized dealer of Hayward and Raypak pool equipment.
- 2) Neither Hayward nor Raypak provide documentation relating to the noise levels produced by their equipment.
- 3) Mr. & Mrs. Dunn are proposing to build a swimming pool using Hayward's model 700 Super Pump variable speed pump and Raypak's model 266A heater ("equipment").
- 4) The proposed location of equipment:
 - a. Is more than 100 feet from the nearest neighbor's property line
 - b. Is behind an "acoustically opaque" privacy fence that will further reduce noise
- 5) I personally measured the open-air Sound Pressure Level ("SPL") of the proposed pump using a calibrated meter to establish noise levels of the pump at various operating speeds and distances.
- 6) The SPL measurements were made using the "unfiltered" and "unweighted" decibel scale known as DB-X.
- 7) Four (4) separate SPL measurements were made, each lasting 30-seconds.
- 8) The difference between min/max readings is attributable to changes in the ambient background noise ("ABN") such as wind, vehicular traffic, random noises in the distance, etc.
- 9) The measured results were:

Pump Speed	Min (dB)	Max (dB)	Avg (dB)
0% (Ambient Noise)	42	43	42
40% speed at 5 Ft	51	56	53
65% speed at 5 Ft	55	60	57
100% speed at 5 Ft	62	62	62
100% speed at 25ft	53	55	54
100% speed at 50ft	42	45	43

- 10) At a distance of more than 50 feet, the pool pump is inaudible above ABN.
- 11) The Raypak 266A heater produces less noise than the pump.
- 12) It is not possible to operate the heater in the absence of running the pump.
- 13) The heater's SPL is not measurable when the pump is operating.



Darryl Nitke

Sworn to before me on this 24th day of August 2022.



