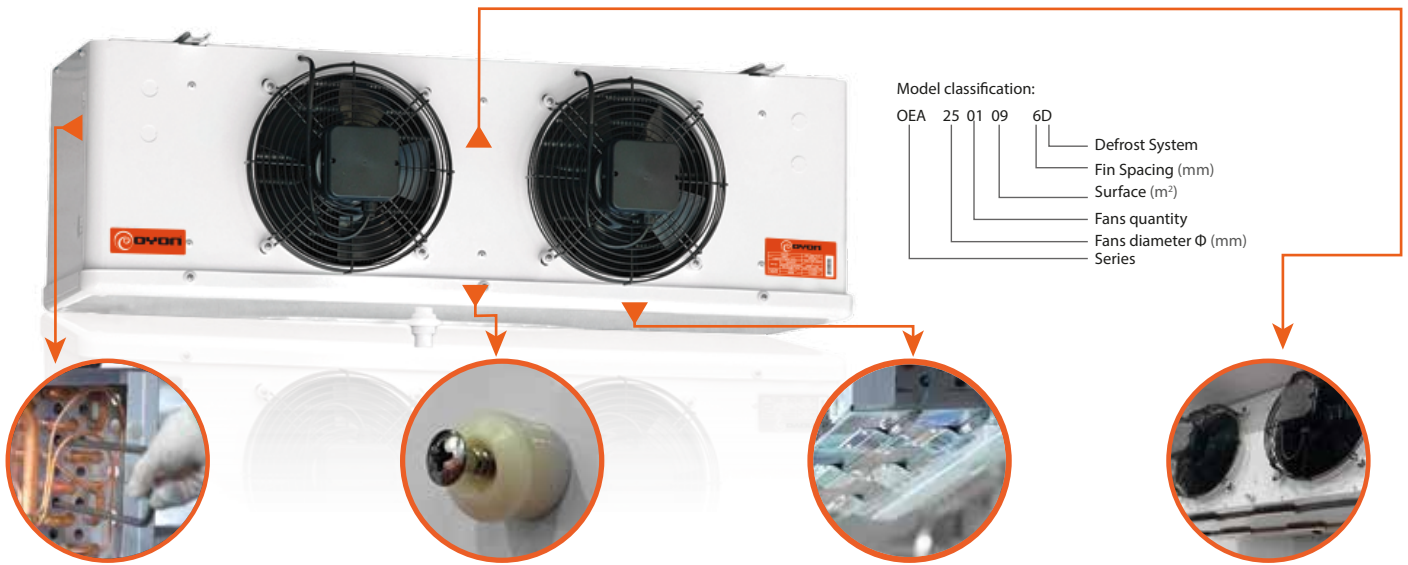




SERIE OEA EVAPORATORS



Model classification:

OEA 25 01 09 6D
 Defrost System
 Fin Spacing (mm)
 Surface (m²)
 Fans quantity
 Fans diameter Ø (mm)
 Series

Excellent heat exchanger design

Copper tubes in line, excellent design for pipes & heater rods position, to reach a higher efficiency.

Plastic union of great durability

Uses Nylon and Stainless Steel parts to increase strength and reduce vibration. Avoiding contact between screw and housing minimizes oxidation.

Fix of heater rods

The tough Zoppas heaters with anti dry-burn design can be bent to 90°. Fixed by stainless steel clamps for easy maintenance or replacement.

Divisions

Each fan is in separate compartments in order to avoid internal cross-flow.

Axial fan motor and installation

Specially designed axial fan providing higher input, in flow and air throw. Provides easy access for maintenance.



OEA/D
2501/3001/4001/4501



OEA/D
2502/3002/4002/4502



OEA/D
2503/3003/4003/4503



OEA/D
2504/3004/4004

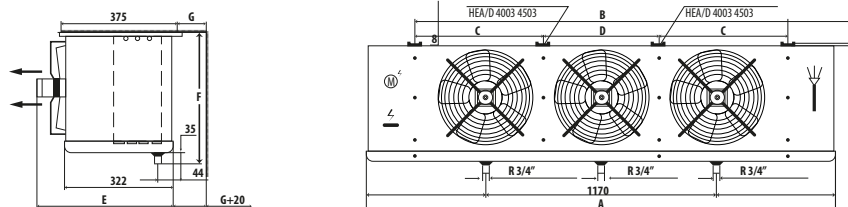


OEA/D
2506/3006

General features:

The high efficient coils are made from high quality copper tube Ø12 mm and special profile aluminium fins. Heat exchangers are supplied clean and tested under a pressure of 30 bars.

- **The casing:**
White powder coated aluminium, high corrosion strength, impact resistance, and does not produce polluting debris.
- **The fan motors:**
All with high quality axial fan motors with high safety standards fitted well to the unit casing with an anti-vibration system.
- **Defrost heating:**
Provided by stainless steel heater elements covered by the aluminium tubes, located in the finned pack and in the drain pan.
- **Electrical parts and wiring:**
Are connected to a ground terminal, carried out in junction box with access holes equipped with water-proof cable glands. All materials are selected carefully for long-term reliability.



General information **Fin spacing: 6 mm / With heater: $R_t \geq -18^\circ\text{C} / -0.4^\circ\text{F}$**

Model	Capacity R-404A / R-507A (BTU/h)		Surface M ²	Tube volume (dm ³)	N.W. (kg)	Dimensions (mm)							Connection Diameter (Φ mm)	
	$t_e = -8^\circ\text{C}$ 17.6°F	$t_e = -25^\circ\text{C}$ -13°F				A	B	C	D	E	F	G	Inlet	Outlet
	DT1=8°K	DT1=7°K												
OEA 2501 06 6D	6.039	4.389	6	1,8	13	702	420	-	-	430	350	200	12	16
OEA 2502 11 6D*	11.636	8.495	11	3,2	23	1.094	812	-	-	430	350	200	12	19
OEA 2503 17 6D	17.111	12.481	17	4,7	33	1.486	1.204	-	-	430	350	200	12	22
OEA 2504 23 6D	22.869	16.668	23	6,1	43	1.878	1.596	-	-	430	350	200	12	22
OEA 2506 35 6D	34.987	25.526	35	8,7	66	2.662	2.380	798	784	430	350	250	15	28
OEA 3001 08 6D*	7.932	5.798	8	2,4	18	702	420	-	-	415	460	200	12	19
OEA 3002 15 6D*	16.064	11.716	15	4,3	30	1.094	812	-	-	415	460	200	12	22
OEA 3003 23 6D*	24.318	17.715	23	6,2	43	1.486	1.204	-	-	415	460	250	12	22
OEA 3004 31 6D	31.968	23.352	31	8,2	56	1.878	1.596	-	-	415	460	250	15	28
OEA 3006 46 6D	48.032	35.108	46	11,6	83	2.662	2.380	798	784	415	460	300	15	28
OEA 4001 13 6D	15.179	10.951	13	3,5	28	912	630	-	-	455	530	250	12	18
OEA 4002 27 6D*	29.391	21.218	27	7,2	53	1.486	1.204	602	-	455	530	300	15	22
OEA 4003 36 6D*	27.121	26.734	36	9,6	68	1.878	1.596	551	494	455	530	300	15	28
OEA 4004 54 6D	61.439	44.247	54	14,4	103	2.662	2.380	597	593	455	530	350	15	35
OEA 4501 20 6D	22.144	16.145	20	5,5	38	1.094	812	-	-	460	600	300	12	22
OEA 4502 41 6D	44.127	32.290	41	10,5	75	1.878	1.596	798	-	460	600	300	15	28
OEA 4503 61 6D	62.486	45.697	61	15,5	115	2.662	2.380	798	784	460	600	350	15	35

Electric data

Model	Axial Fans							Electric Defrost		
	Diameter (Φ mm)	Qty	Voltage (V, 50/60Hz)	Power (W)	Current (A)	Air Flow (m ³ /h)	Air Throw (m)	Coil (W)	Drain Pan (W)	Total (W)
OEA 2501 06 6D	250	1	220 /1PH	60	0,28	1045	4	2 x 440	1 x 440	1.320
OEA 2502 11 6D*	250	2	220 /1PH	120	0,56	2090	7	2 x 730	1 x 730	2.190
OEA 2503 17 6D	250	3	220 /1PH	180	0,84	3135	8	2 x 1030	1 x 1030	3.090
OEA 2504 23 6D	250	4	220 /1PH	240	1,12	4180	9	2 x 1310	1 x 1310	3.930
OEA 2506 35 6D	250	6	220 /1PH	360	1,68	6270	12	2 x 1890	1 x 1890	5.670
OEA 3001 08 6D*	300	1	220 /1PH	110	0,51	2090	5	3 x 440	1 x 440	1.760
OEA 3002 15 6D*	300	2	220 /1PH	220	1,02	4180	7	3 x 730	1 x 730	2.920
OEA 3003 23 6D*	300	3	220 /1PH	330	1,53	6270	10	3 x 1030	1 x 1030	4.120
OEA 3004 31 6D	300	4	220 /1PH	440	2,04	8360	11	3 x 1310	1 x 1310	5.240
OEA 3006 46 6D	300	6	220 /1PH	660	3,06	12540	12	3 x 1890	1 x 1890	7.560
OEA 4001 13 6D	400	1	220 /1PH	320	1,50	4510	9	4 x 550	1 x 550	2.750
OEA 4002 27 6D*	400	2	220 /1PH	640	3,00	9020	12	4 x 1030	1 x 1030	5.150
OEA 4003 36 6D*	400	3	220 /1PH	960	4,50	13530	13	4 x 1310	1 x 1310	6.550
OEA 4004 54 6D	400	4	220 /1PH	1280	6,00	18040	15	4 x 1890	1 x 1890	9.450
OEA 4501 20 6D	450	1	220 /1PH	460	2,10	8140	13	4 x 730	1 x 730	3.650
OEA 4502 41 6D	450	2	220 /1PH	920	3,04	16280	15	4 x 1310	1 x 1310	6.550
OEA 4503 61 6D	450	3	220 /1PH	1380	4,56	24420	17	4 x 1890	1 x 1890	9.450



Cross reference / Medium temperature

Capacity @ TD 6°C (10°F) @ SST= -10°C (14°F)

			FRIGUS BOHN			SMART BLUE MIPAL			KEEPRITE		
Model	Kcal/h	BTU/h	Model	Kcal/h	BTU/h	Model	Kcal/h	BTU/h	Model	Kcal/h	BTU/h
-	-	-	FBA4140D	3.180	12.619	LBA150	3.258	12.931	KLP214	3.457	13.720
-	-	-	FBA4160D	3.680	14.603	LBA168	3.616	14.349	-	-	-
OEA 3003 23 6 D *	4.455	17.678	FBA4180D	4.150	16.468	LBA196	4.190	16.627	KLP317	4.198	16.660
-	-	-	FBA4210D	4.740	18.810	LBA217	4.645	18.434	KLP320	4.939	19.600
OEA 3004 31 6 D	5.856	23.238	FBA4240D	5.180	20.556	LBA252	5.453	21.639	KLP423	5.738	22.770
OEA 4502 41 6 D	8.080	32.064	FBA4320D	6.540	25.952	LBA319	6.583	26.122	KLP426	6.486	25.740
-	-	-	FBA4370D	7.550	29.960	LBA373	8.150	32.341	KLP532	9.730	38.610
OEA 4004 61 4 D	11.247	44.631	FBA4450D	9.070	35.992	LBA422	9.347	37.091	-	-	-
-	-	-	FBA4540D	10.830	42.976	LBA526	10.873	43.147	-	-	-
Various blades			Fan blade 10"			Fan blade 10"			Fan blade 10"		

Cross reference / Low temperature

Capacity @ TD 6°C (10°F) @ SST= -30°C (-22°F)

			FRIGUS BOHN			COIL EXPERT			COIL EXPERT			KEEPRITE		
Model	Kcal/h	BTU/h	Model	Kcal/h	BTU/h	Model	Kcal/h	BTU/h	Model	Kcal/h	BTU/h	Model	Kcal/h	BTU/h
-	-	-	-	-	-	MEL019-4	467	1.900	-	-	-	-	-	-
-	-	-	-	-	-	MEL028-4	731	2.900	MEL034-4	844	3.400	-	-	-
OEA 2501 06 6 D	912	3.620	FBA4050D	1.110	4.405	MEL038-4	940	3.700	-	-	-	KLP104L	958	3.800
OEA 2502 11 6 D *	1.763	6.999	FBA4080D	1.720	6.825	MEL057-4	1.421	5.600	MEL055-4	1.398	5.500	KLP105L	1.210	4.800
OEA 3001 08 6 D *	1.746	6.931	-	-	-	MEL058-4	1.487	5.900	-	-	-	KLP106L	1.462	5.800
-	-	-	FBA4090D	1.940	7.698	MEL076-4	1.885	7.500	MEL068-4	1.721	6.800	-	-	-
-	-	-	-	-	-	-	-	-	MEL070-4	1.766	7.000	KLP207L	1.865	7.400
OEA 4001 13 6 D	2.408	9.560	FBA4110D	2.420	9.603	MEL095-4	2.396	9.500	MEL106-4	2.675	10.600	KLP209L	2.268	9.000
OEA 3002 15 6 D *	2.580	10.243	-	-	-	MEL091-4	2.243	8.900	-	-	-	-	-	-
-	-	-	FBA4140D	3.180	12.619	MEL114-4	2.855	11.300	MEL110-4	2.715	10.800	KLP211L	2.772	11.000
OEA 3003 23 6 D *	3.904	15.500	FBA4160D	3.680	14.603	MEL120-4	3.038	12.100	MEL140-4	3.477	13.800	-	-	-
-	-	-	FBA4180D	4.150	16.468	MEL153-4	3.831	15.200	MEL143-4	3.608	14.300	KLP314L	3.528	14.000
-	-	-	-	-	-	-	-	-	MEL155-4	3.900	15.500	KLP317L	4.284	17.000
OEA 4002 27 6 D *	4.670	18.539	FBA4210D	4.740	18.810	MEL179-4	4.511	17.900	MEL180-4	4.518	17.900	KLP419	4.788	19.000
OEA 4003 36 6 D *	5.891	23.387	FBA4240D	5.180	20.556	-	-	-	MEL215-4	5.408	21.500	-	-	-
-	-	-	FBA4320D	6.540	25.952	-	-	-	MEL216-4	5.446	21.600	-	-	-
-	-	-	-	-	-	-	-	-	MEL228-4	5.757	22.800	KLP422L	5.544	22.000
-	-	-	FBA4370D	7.550	29.960	-	-	-	MEL285-4	2.855	28.400	KLP527L	6.804	27.000
OEA 4502 41 6 D	7.112	28.235	-	-	-	-	-	-	MEL290-4	7.294	28.900	KLP631L	7.812	31.000
OEA 4004 54 6 D	9.744	38.683	FBA4450D	9.070	35.992	-	-	-	MEL340-4	8.525	33.800	-	-	-
OEA 4503 61 6 D	10.062	39.946	FBA4540D	10.830	42.976	-	-	-	MEL390-4	9.748	38.700	-	-	-
-	-	-	-	-	-	-	-	-	MEL460-4	11.555	45.900	-	-	-
Various blades			Fan blade 10"			Fan blade 8"			Fan blade 12"					



Capacity @ TD 6°C (10°F) @ SST= -10°C (14°F)



Model	Tc / Te	Danfoss Solenoid Valve		Danfoss Expansion Valve	
		Model	Model	Model	Orafcce
Te -8° C / 18°F					
OEA 2501 06 6D	Tc 0° C / 32°F	EVR6 (3/8"soldering)	TES-2		01
OEA 3001 08 6D *	Tc 0° C / 32°F	EVR6 (3/8"soldering)	TES-2		01
OEA 2502 11 6D *	Tc 0° C / 32°F	EVR6 (3/8"soldering)	TES-2		02
OEA 3002 15 6D *	Tc 0° C / 32°F	EVR6 (3/8"soldering)	TES-2		03
OEA 2503 17 6D	Tc 0° C / 32°F	EVR6 (3/8"soldering)	TES-2		03
OEA 4501 20 6D	Tc 0° C / 32°F	EVR10 (1/2"soldering)	TES-2		03
OEA 3003 23 6D *	Tc 0° C / 32°F	EVR10 (1/2"soldering)	TES-2		04
OEA 3004 31 6D	Tc 0° C / 32°F	EVR10 (1/2"soldering)	TES-2		05
OEA 2506 35 6D	Tc 0° C / 32°F	EVR10 (1/2"soldering)	TES-2		05
OEA 4002 27 6D *	Tc 0° C / 32°F	EVR10 (1/2"soldering)	TES-2		06
OEA 4502 41 6D	Tc 0° C / 32°F	EVR10 (1/2"soldering)	TES-2		06
OEA 3006 46 6D	Tc 0° C / 32°F	EVR10 (1/2"soldering)	TES-5		01
OEA 4503 61 6D	Tc 0° C / 32°F	EVR15 (5/8"soldering)	TES-5		02
OEA 4503 92 4D	Tc 0° C / 32°F	EVR15 (5/8"soldering)	TES-5		03
Te -25° C / -15° F					
OEA 2501 06 6D	Tc -18° C / 0°F	EVR6 (3/8"soldering)	TES-2		01
OEA 3001 08 6D *	Tc -18° C / 0°F	EVR6 (3/8"soldering)	TES-2		02
OEA 2502 11 6D *	Tc -18° C / 0°F	EVR6 (3/8"soldering)	TES-2		02
OEA 3002 15 6D *	Tc -18° C / 0°F	EVR6 (3/8"soldering)	TES-2		03
OEA 2503 17 6D	Tc -18° C / 0°F	EVR10 (1/2"soldering)	TES-2		03
OEA 4501 20 6D	Tc -18° C / 0°F	EVR10 (1/2"soldering)	TES-2		04
OEA 3003 23 6D *	Tc -18° C / 0°F	EVR10 (1/2"soldering)	TES-2		04
OEA 3004 31 6D	Tc -18° C / 0°F	EVR10 (1/2"soldering)	TES-2		06
OEA 2506 35 6D	Tc -18° C / 0°F	EVR10 (1/2"soldering)	TES-2		06
OEA 4502 41 6D	Tc -18° C / 0°F	EVR15 (5/8"soldering)	TES-5		01
OEA 3006 46 6D	Tc -18° C / 0°F	EVR15 (5/8"soldering)	TES-5		01
OEA 4503 61 6D	Tc -18° C / 0°F	EVR15 (5/8"soldering)	TES-5		02



Nomenclature:

Te =Evaporation temperature

Tc = temperature chamber (inside the cold room)

Also available:



OEJ series
EVAPORATOR



OEB series
EVAPORATOR



Oyon evaporator units selection based on Danfoss condensing units

Temperature Environment = 32°C / 89.6 °F Overheating = 3°K Subcooling = 18°K		Danfoss Condensing unit								oyon Evaporator models									
R22 hermetic										6 mm Fin spacing DT1 = 6°K									
HP	Model	+5		-10		-20		-30		+5		-10		-20		-30		Model	
		Btu/h	Kcal/h	Btu/h	Kcal/h	Btu/h	Kcal/h	Btu/h	Kcal/h	Btu/h	Kcal/h	Btu/h	Kcal/h	Btu/h	Kcal/h	Btu/h	Kcal/h		
1 1/2	HCM 018	14.250	3.591	7.278	1.834	3.937	992	-	-	10.444	2.632	8.000	2.016	7.333	1.848	-	-	OEA 2502 11 6D	
2	HCM 022	20.302	5.116	10.841	2.732	5.976	1.506	-	-	15.226	3.837	11.663	2.939	10.690	2.694	-	-	OEA 3002 15 6D	
2 1/2	HCM 028	27.393	6.903	15.706	3.958	9.492	2.392	-	-	23.079	5.816	17.679	4.455	16.202	4.083	-	-	OEA 3003 23 6D	
2 3/4	HCM 032	31.087	7.834	17.222	4.340	10.206	2.572	-	-	23.079	5.816	21.024	5.298	16.202	4.083	-	-	OEA 3003 23 6D	
3	HCM 036	34.750	8.757	20.317	5.120	12.540	3.160	-	-	30.337	7.645	23.238	5.856	21.302	5.368	-	-	OEA 3004 31 6D	
3 1/2	HCM 040	40.524	10.212	22.976	5.790	14.028	3.535	-	-	30.337	7.645	23.238	5.856	21.302	5.368	-	-	OEA 3004 31 6D	
4	HCM 044	44.512	11.217	23.187	5.843	14.647	3.691	-	-	35.230	8.878	26.984	6.800	24.734	6.233	-	-	OEA 4003 36 6D	
4 1/2	HCM 050	46.571	11.736	25.290	6.373	15.587	3.928	-	-	35.230	8.878	26.984	6.800	24.734	6.233	-	-	OEA 4003 36 6D	
5	HCM 056	52.329	13.187	29.456	7.423	17.671	4.453	-	-	41.861	10.549	32.063	8.080	29.393	7.407	-	-	OEA 4502 41 6D	
5 1/2	HCM 064	61.155	15.411	33.397	8.416	19.575	4.933	-	-	41.861	10.549	32.063	8.080	29.393	7.407	-	-	OEA 4502 41 6D	
6	HCM 072	66.091	16.655	37.187	9.371	21.921	5.524	-	-	58.270	14.684	44.631	11.247	40.913	10.310	-	-	OEA 4004 54 6D	
7	HCM 080	74.758	18.839	41.980	10.579	24.726	6.231	-	-	58.270	14.684	44.631	11.247	40.913	10.310	-	-	OEA 4004 54 6D	
R404A hermetic										6 mm Fin spacing									
HP	Model	+5		-10		-20		-30		+5		-10		-20		-30		MODEL	
		Btu/h	Kcal/h	Btu/h	Kcal/h	Btu/h	Kcal/h	Btu/h	Kcal/h	Btu/h	Kcal/h	Btu/h	Kcal/h	Btu/h	Kcal/h	Btu/h	Kcal/h		
1 1/2	HCZ 018	-	-	8.544	2.153	5.123	1.291	2.901	731	-	-	5.938	1.496	5.443	1.372	4.783	1.205	OEA 3001 08 6D	
2	HCZ 022	-	-	12.282	3.095	7.849	1.978	4.282	1.079	-	-	12.081	3.044	11.074	2.791	9.732	2.452	OEA 3002 15 6D	
2 1/2	HCZ 028	-	-	15.492	3.904	9.881	2.490	5.627	1.418	-	-	12.081	3.044	11.074	2.791	9.732	2.452	OEA 3002 15 6D	
2 3/4	HCZ 032	-	-	17.687	4.457	11.187	2.819	6.488	1.635	-	-	12.081	3.044	11.074	2.791	9.732	2.452	OEA 3002 15 6D	
3	HCZ 036	-	-	19.885	5.011	12.762	3.216	7.357	1.854	-	-	18.224	4.592	16.705	4.210	14.680	3.699	OEA 3003 23 6D	
3 1/2	HCZ 040	-	-	23.083	5.817	14.325	3.610	7.746	1.952	-	-	18.224	4.592	16.705	4.210	14.680	3.699	OEA 3003 23 6D	
4	HCZ 044	-	-	25.179	6.345	15.246	3.842	8.774	2.211	-	-	18.224	4.592	16.705	4.210	14.680	3.699	OEA 3003 23 6D	
4 1/2	HCZ 050	-	-	28.786	7.254	18.381	4.632	10.579	2.666	-	-	22.027	5.551	20.191	5.088	17.744	4.471	OEA 4002 27 6D	
5	HCZ 056	-	-	33.528	8.449	20.841	5.252	12.040	3.034	-	-	22.027	5.551	20.191	5.088	17.744	4.471	OEA 4002 27 6D	
5 1/2	HCZ 064	-	-	37.651	9.488	24.306	6.125	14.044	3.539	-	-	27.818	7.010	25.500	6.426	22.409	5.647	OEA 4003 36 6D	
6	HCZ 072	-	-	41.230	10.390	26.940	6.789	16.060	4.047	-	-	27.818	7.010	25.500	6.426	22.409	5.647	OEA 4003 36 6D	
7	HCZ 080	-	-	46.683	11.764	30.905	7.788	18.294	4.610	-	-	33.054	8.330	30.300	7.636	26.627	6.710	OEA 4502 41 6D	
9	HCZ 100	-	-	51.651	13.016	32.746	8.252	18.587	4.684	-	-	46.013	11.595	42.179	10.629	37.066	9.341	OEA 4004 54 6D	
10 1/2	HCZ 125	-	-	69.837	17.599	44.560	11.229	25.067	6.317	-	-	46.803	11.794	42.902	10.811	37.702	9.501	OEA 4503 61 6D	
2	LCZ 48	-	-	-	-	7.829	1.973	4.861	1.225	-	-	-	-	11.074	2.791	9.732	2.452	OEA 3002 15 6D	
2 1/2	LCZ 68	-	-	-	-	11.544	2.909	7.321	1.845	-	-	-	-	11.074	2.791	9.732	2.452	OEA 3002 15 6D	
3 1/2	LCZ 108	-	-	-	-	20.048	5.052	12.290	3.097	-	-	-	-	20.191	5.088	17.744	4.471	OEA 4002 27 6D	
4	LCZ 136	-	-	-	-	26.008	6.554	16.377	4.127	-	-	-	-	25.500	6.426	22.409	5.647	OEA 4003 36 6D	
7 1/2	LGZ 215	-	-	-	-	39.381	9.924	23.698	5.972	-	-	-	-	42.179	10.629	37.066	9.341	OEA 4004 54 6D	