

Series description Wilo-Economy MHIL



Design

Non-self-priming multistage pump

Application

- Water supply and pressure boosting
- Commerce and industry
- Washing and spraying systems
- Rainwater utilisation
- Cooling and cold water circuits

Type key

Example: **MHIL 302/E-1-230-50-2**

MHIL	Multistage horizontal high-pressure centrifugal pump
3	Volume flow in m ³ /h
02	Number of impellers
E	Gasket type E = EPDM V = Viton
1	1 = 1~ (single-phase current) 3 = 3~ (three-phase current)
230	Connection voltage in V
50	Frequency in Hz
2	Number of poles

Special features/product benefits

- Impellers and stage chambers made of stainless steel 1.4301 (AISI 304)
- Pump housing made of cast iron EN-GJL-250, cataphoretic-coated
- All relevant components are KTW- and WRAS-certified
- Single-phase current and three-phase current versions

Equipment/function

- Pump in monobloc design
- Threaded connection
- Single-phase or three-phase motor
- Single-phase AC motor with integrated thermal motor protection

Technical data

- Mains connection 1~230 V / 50 Hz or optionally 220 V / 60 Hz
- Mains connection 3~230V / 50 Hz (Δ) or optionally 220 V / 60 Hz (Δ), 400 V / 50 Hz (Y) or optionally 380 V / 60 Hz (Y)
- Fluid temperature -15 to +90 °C
- Max. operating pressure 10 bar
- Max. inlet pressure 6 bar

- Protection class IP 54
- Nominal diameters of pipe connections on pressure side Rp 1 or Rp 1 ¼, depending on type
- Nominal diameters of pipe connections on suction side Rp 1, Rp 1 ¼ or Rp 1 ½, depending on type

Materials

- Impellers stainless steel 1.4301
- Stage chambers stainless steel 1.4301
- Shaft stainless steel 1.4028
- Seal EPDM
- Housing cover EN-GJL-250 (cataphoretic-coated)
- Lower housing section EN-GJL-250 (cataphoretic-coated)
- Mechanical seal SiC/carbon
- Bearing tungsten carbide
- Pump base EN-GJL-250 (cataphoretic-coated)

Scope of delivery

- Pump
- Installation and operating instructions

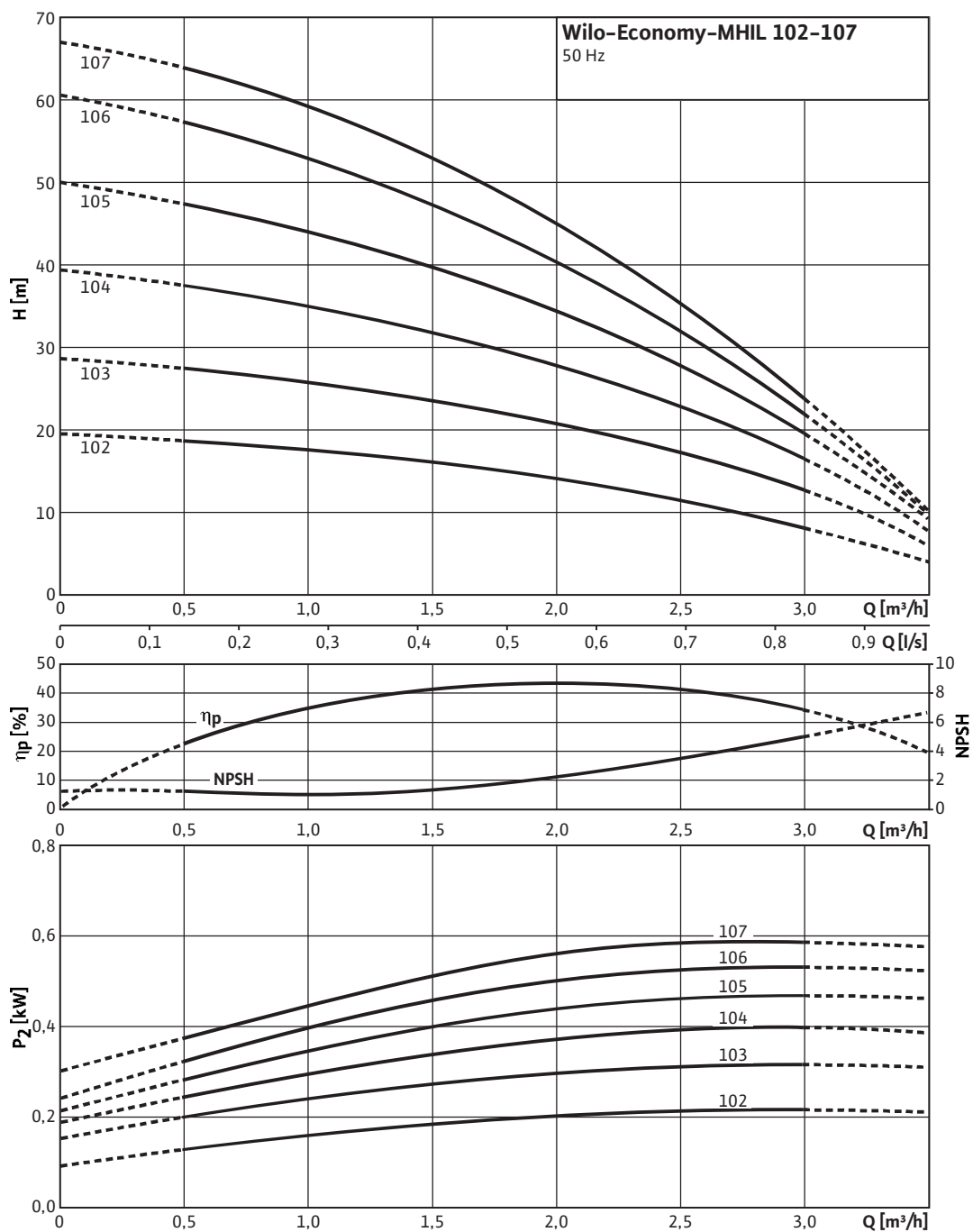
Pressure boosting

Single pumps

Pump curves Wilo-Economy MHIL

Wilo-Economy MHIL 102 - 107

2-pole/50 Hz

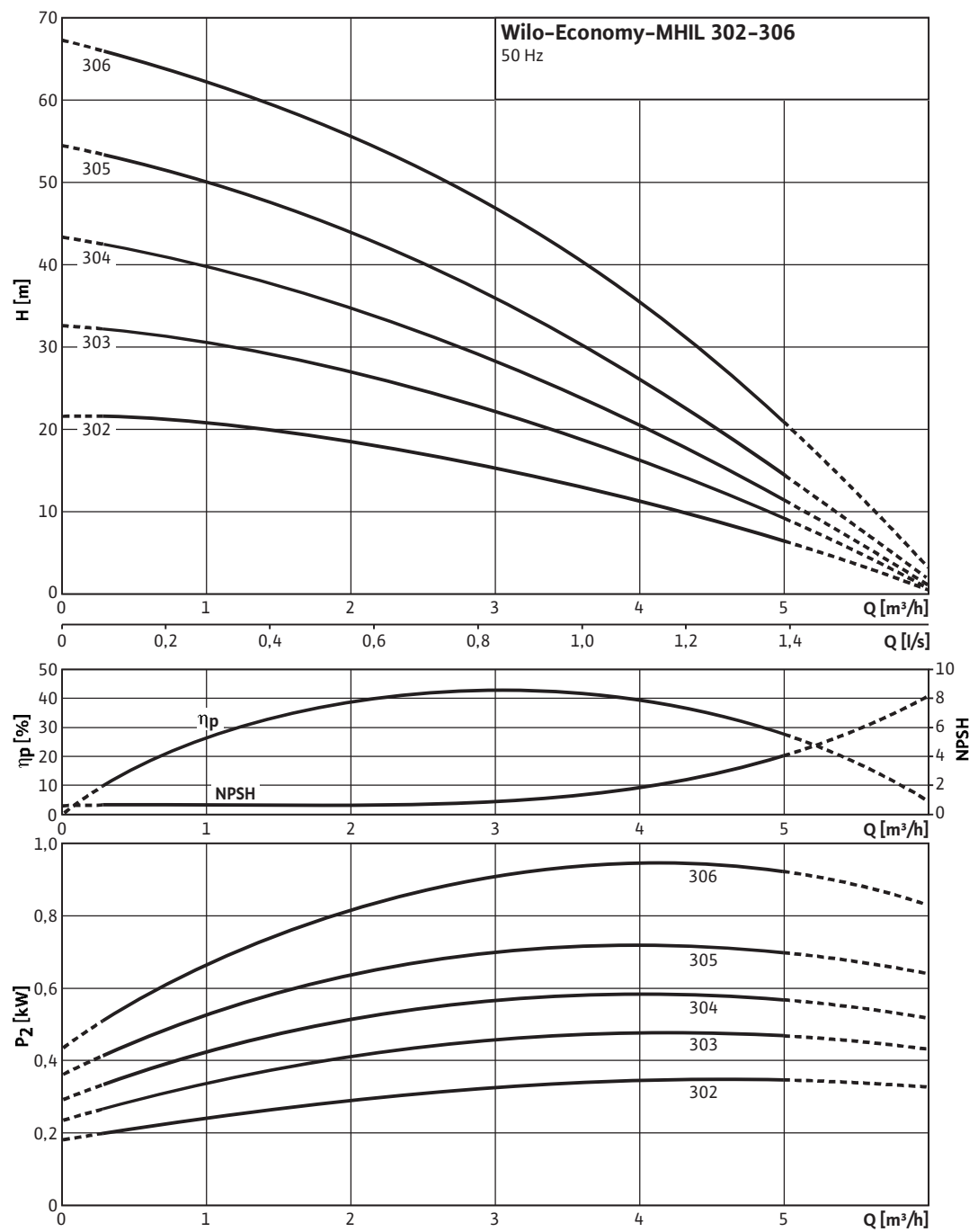


Pump curves in accordance with ISO 9906, class 2

Pump curves Wilo-Economy MHIL

Wilo-Economy MHIL 302 - 306

2-pole/50 Hz



Pump curves in accordance with ISO 9906, class 2

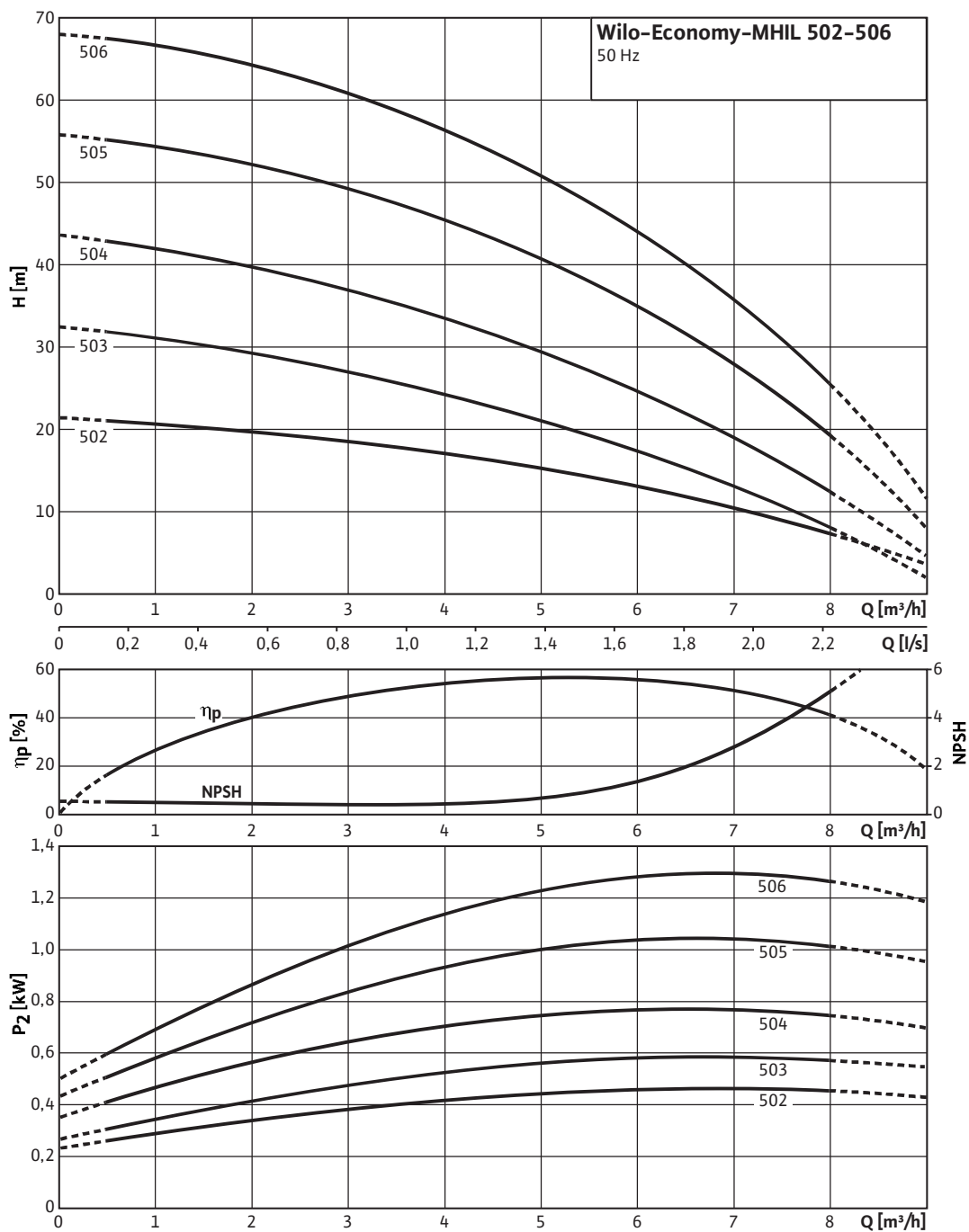
Pressure boosting

Single pumps

Pump curves Wilo-Economy MHIL

Wilo-Economy MHIL 502 - 506

2-pole/50 Hz

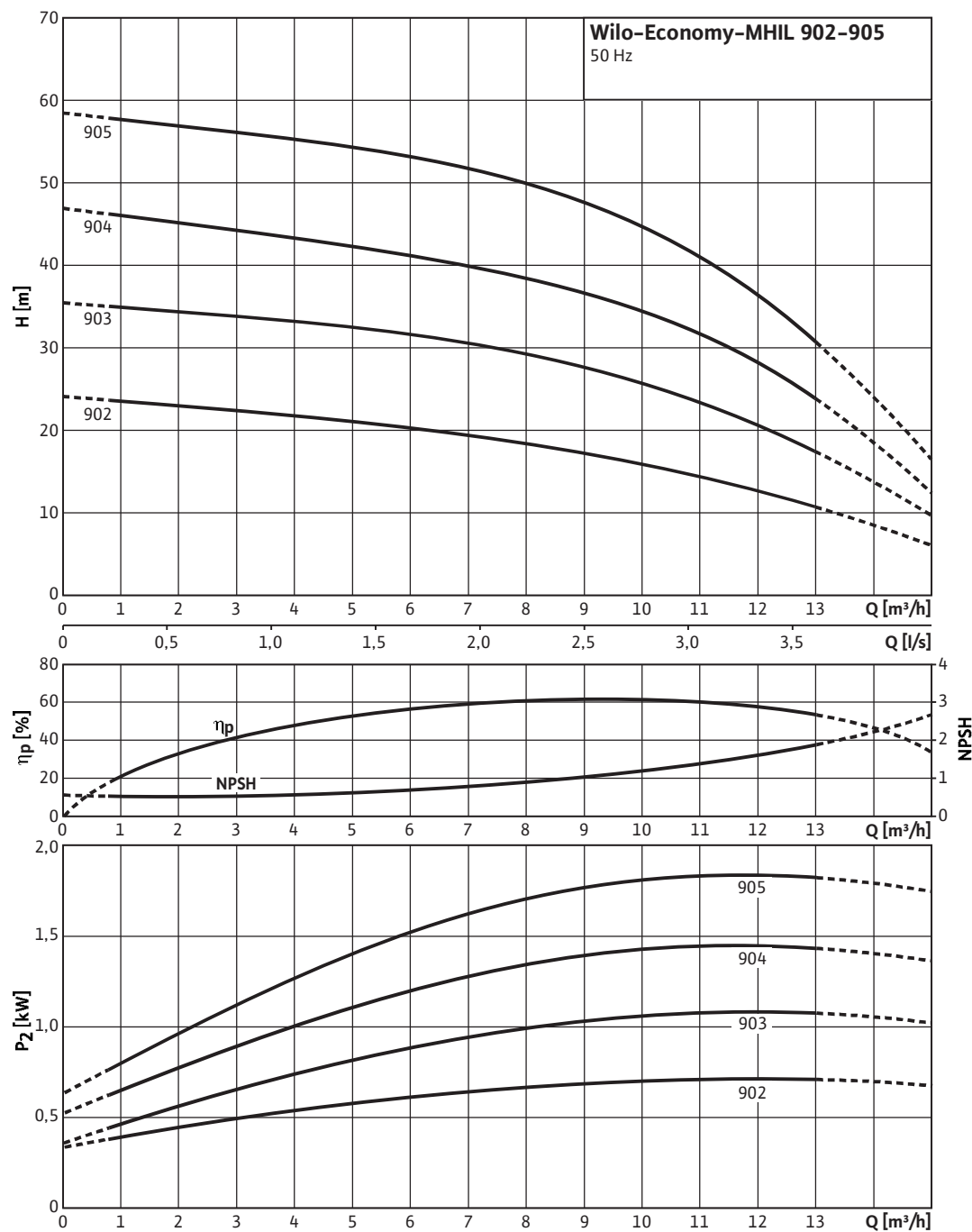


Pump curves in accordance with ISO 9906, class 2

Pump curves Wilo-Economy MHIL

Wilo-Economy MHIL 902 - 905

2-pole/50 Hz



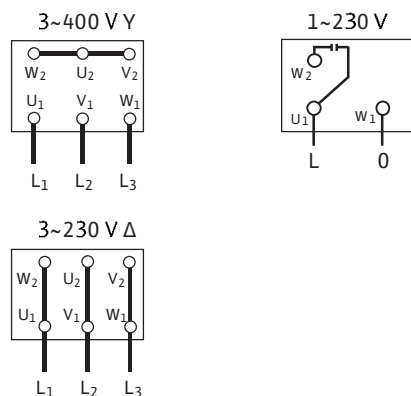
Pump curves in accordance with ISO 9906, class 2

Pressure boosting

Single pumps

Terminal diagram, motor data Wilo-Economy MHIL

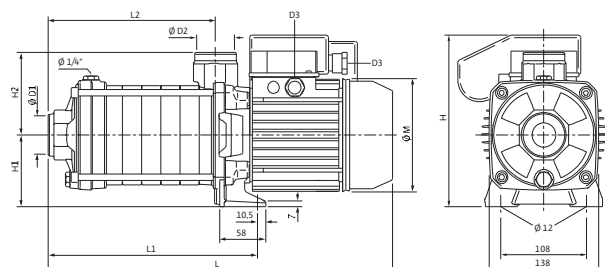
Electrical connection



Motor data			
Wilo-Economy...	Nominal motor power	Nominal current	
		1~230 V, 50 Hz	3~230/400 V, 50 Hz
		I_N	
		A	
MHIL 102	0.55	4	3 / 1.7
MHIL 103	0.55	4	3 / 1.7
MHIL 104	0.55	4	3 / 1.7
MHIL 105	0.55	4	3 / 1.7
MHIL 106	0.55	4	3 / 1.7
MHIL 107	0.55	4	3 / 1.7
MHIL 302	0.55	4	3 / 1.7
MHIL 303	0.55	4	3 / 1.7
MHIL 304	0.55	4	3 / 1.7
MHIL 305	0.75	5.1	3.6 / 2.1
MHIL 306	1.10	7.2	5.3 / 3.1
MHIL 502	0.55	4	3 / 1.7
MHIL 503	0.55	4	3 / 1.7
MHIL 504	0.75	5.1	3.6 / 2.1
MHIL 505	1.10	7.2	5.3 / 3.1
MHIL 506	1.50	9.2	6.6 / 3.8
MHIL 902	0.75	5.1	3.6 / 2.1
MHIL 903	1.10	7.2	5.3 / 3.1
MHIL 904	1.50	9.2	6.6 / 3.8
MHIL 905	1.85	—	8.55 / 4.95

Dimensions, weights Wilo-Economy MHIL

Dimension drawing



Dimensions, weights

Wilo-Economy...	Dimensions														Weight approx.	
							1~ 230V	3~ 400V	1~ 230V	3~ 400V	1~ 230V	3~ 400V	1~ 230V	3~ 400V	1~ 230V	3~ 400V
	Ø D ₁	Ø D ₂	H ₁	H ₂	L ₁	L ₂	L		D ₃		Ø M		H		m	
	Rp		mm						PG/M		mm				kg	
MHIL 102	1	1	90	104	156.2	102.7	321.2	321.2	11	11	126	126	190	190	12.6	12.4
MHIL 103	1	1	90	104	176.4	122.9	341.4	341.4	11	11	126	126	190	190	12.9	12.7
MHIL 104	1	1	90	104	196.6	143.1	361.6	361.6	11	11	126	126	190	190	13.2	13.1
MHIL 105	1	1	90	104	216.8	163.3	381.5	381.5	11	11	126	126	190	190	13.5	13.4
MHIL 106	1	1	90	104	237.0	183.5	402.0	402.0	11	11	126	126	190	190	13.9	13.7
MHIL 107	1	1	90	104	257.2	203.7	422.2	422.2	11	11	126	126	190	190	14.2	14.0
MHIL 302	1	1	90	104	167.2	113.7	332.2	332.2	11	11	126	126	190	190	12.9	12.7
MHIL 303	1	1	90	104	191.4	137.9	356.4	356.4	11	11	126	126	190	190	13.1	13.0
MHIL 304	1	1	90	104	215.6	162.1	380.6	380.6	11	11	126	126	190	190	13.4	13.2
MHIL 305	1	1	90	104	239.8	186.3	409.0	409.0	13.5	11	145	145	216	192	15.0	14.2
MHIL 306	1	1	90	104	264.0	210.5	458.0	433.2	13.5	11	162	145	224	192	17.7	14.5
MHIL 502	1¼	1	90	104	167.2	113.7	332.2	332.2	11	11	126	126	190	190	12.9	12.7
MHIL 503	1¼	1	90	104	191.4	137.9	356.4	356.4	11	11	126	126	190	190	13.2	13.0
MHIL 504	1¼	1	90	104	215.6	162.1	393.8	393.8	13.5	11	145	145	216	192	14.8	14.0
MHIL 505	1¼	1	90	104	239.8	186.3	433.8	409.0	13.5	11	162	145	224	192	17.5	14.3
MHIL 506	1¼	1	90	104	264.0	210.5	458.0	458.0	13.5	13.5	162	162	224	206	19.4	17.6
MHIL 902	1½	1¼	90	104	173.2	119.7	342.4	342.4	13.5	11	145	145	216	192	14.2	13.4
MHIL 903	1½	1¼	90	104	203.4	149.9	397.4	397.4	13.5	11	162	145	224	192	17.0	13.7
MHIL 904	1½	1¼	90	104	233.6	180.1	428.6	428.6	13.5	13.5	162	162	224	206	18.8	17.1
MHIL 905	1½	1¼	90	104	263.8	210.3	—	458.8	—	13.5	—	162	—	206	—	19.4