

Table 4.1a. Time averaged velocities and metal properties at $|z| = H$

Model	phase	\bar{v}_{out}	$\bar{v}_{\mathcal{B}}$	\bar{Z}	ζ	f_M^{SN}	f_Z^{SN}
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
R2	cool	69	$1.0 \cdot 10^2$	$3.9 \cdot 10^{-2}$	1.1	$2.6 \cdot 10^{-2}$	0.14
	int	$1.4 \cdot 10^2$	$2.1 \cdot 10^2$	$4.2 \cdot 10^{-2}$	1.2	$4.4 \cdot 10^{-2}$	0.21
	hot	$5.8 \cdot 10^2$	$1.4 \cdot 10^3$	$7.2 \cdot 10^{-2}$	2.1	0.23	0.63
R4	cool	47	67	$3.2 \cdot 10^{-2}$	1.1	$1.1 \cdot 10^{-2}$	$6.9 \cdot 10^{-2}$
	int	$1.1 \cdot 10^2$	$1.6 \cdot 10^2$	$3.4 \cdot 10^{-2}$	1.1	$2.3 \cdot 10^{-2}$	0.13
	hot	$3.8 \cdot 10^2$	$8.2 \cdot 10^2$	$4.6 \cdot 10^{-2}$	1.6	$9.6 \cdot 10^{-2}$	0.40
R8	cool	20	37	$2.2 \cdot 10^{-2}$	1.0	$3.5 \cdot 10^{-3}$	$3.2 \cdot 10^{-2}$
	int	69	$1.3 \cdot 10^2$	$2.4 \cdot 10^{-2}$	1.1	$1.2 \cdot 10^{-2}$	0.10
	hot	$2.4 \cdot 10^2$	$6.0 \cdot 10^2$	$3.1 \cdot 10^{-2}$	1.4	$5.4 \cdot 10^{-2}$	0.34
R16	cool	7.9	20	$2.0 \cdot 10^{-2}$	1.0	$9.3 \cdot 10^{-6}$	$1.0 \cdot 10^{-4}$
	int	36	96	$2.2 \cdot 10^{-2}$	1.1	$6.3 \cdot 10^{-3}$	$7.1 \cdot 10^{-2}$
	hot	$1.3 \cdot 10^2$	$5.4 \cdot 10^2$	$3.2 \cdot 10^{-2}$	1.6	$5.0 \cdot 10^{-2}$	0.36
LGR2	cool	44	69	$3.5 \cdot 10^{-2}$	1.1	$1.5 \cdot 10^{-2}$	$8.5 \cdot 10^{-2}$
	int	$1.1 \cdot 10^2$	$1.8 \cdot 10^2$	$3.8 \cdot 10^{-2}$	1.2	$3.6 \cdot 10^{-2}$	0.19
	hot	$4.2 \cdot 10^2$	$1.0 \cdot 10^3$	$5.7 \cdot 10^{-2}$	1.8	0.15	0.51
LGR4	cool	29	45	$2.8 \cdot 10^{-2}$	1.0	$4.5 \cdot 10^{-3}$	$3.2 \cdot 10^{-2}$
	int	92	$1.5 \cdot 10^2$	$3.0 \cdot 10^{-2}$	1.1	$1.8 \cdot 10^{-2}$	0.12
	hot	$3.1 \cdot 10^2$	$7.4 \cdot 10^2$	$4.1 \cdot 10^{-2}$	1.5	$8.0 \cdot 10^{-2}$	0.38
LGR8	cool	13	26	$2.2 \cdot 10^{-2}$	1.0	$1.4 \cdot 10^{-3}$	$1.3 \cdot 10^{-2}$
	int	50	$1.2 \cdot 10^2$	$2.4 \cdot 10^{-2}$	1.1	$1.4 \cdot 10^{-2}$	0.11
	hot	$1.6 \cdot 10^2$	$4.6 \cdot 10^2$	$3.0 \cdot 10^{-2}$	1.4	$3.9 \cdot 10^{-2}$	0.29

NOTE—Time series over $0.5 t_{\text{orb}} < t < 1.5 t_{\text{orb}}$ is considered. Columns (3) and (4) are in units of km/s. Columns (5)-(8) are dimensionless.

Table 4.1b. Standard deviations of velocities and metal properties at $|z| = H$

Model	phase	\bar{v}_{out}	$\bar{v}_{\mathcal{B}}$	\bar{Z}	ζ	f_M^{SN}	f_Z^{SN}
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
R2	cool	18	22	$4.2 \cdot 10^{-3}$	$8.4 \cdot 10^{-2}$	$1.4 \cdot 10^{-2}$	$7.6 \cdot 10^{-2}$
	int	21	22	$4.6 \cdot 10^{-3}$	$7.6 \cdot 10^{-2}$	$9.7 \cdot 10^{-3}$	$5.7 \cdot 10^{-2}$
	hot	94	$2.3 \cdot 10^2$	$9.4 \cdot 10^{-3}$	0.34	$5.1 \cdot 10^{-2}$	$7.6 \cdot 10^{-2}$
R4	cool	15	18	$1.9 \cdot 10^{-3}$	$6.6 \cdot 10^{-2}$	$9.2 \cdot 10^{-3}$	$5.9 \cdot 10^{-2}$
	int	18	18	$1.7 \cdot 10^{-3}$	$5.8 \cdot 10^{-2}$	$7.5 \cdot 10^{-3}$	$4.9 \cdot 10^{-2}$
	hot	94	$1.8 \cdot 10^2$	$5.5 \cdot 10^{-3}$	0.28	$3.7 \cdot 10^{-2}$	0.11
R8	cool	6.5	8.6	$6.5 \cdot 10^{-4}$	$9.5 \cdot 10^{-3}$	$1.2 \cdot 10^{-3}$	$9.8 \cdot 10^{-3}$
	int	17	21	$7.7 \cdot 10^{-4}$	$2.3 \cdot 10^{-2}$	$2.8 \cdot 10^{-3}$	$2.1 \cdot 10^{-2}$
	hot	60	$1.5 \cdot 10^2$	$4.1 \cdot 10^{-3}$	0.17	$2.2 \cdot 10^{-2}$	$7.5 \cdot 10^{-2}$
R16	cool	2.9	2.9	$9.2 \cdot 10^{-5}$	$2.7 \cdot 10^{-3}$	$7.8 \cdot 10^{-5}$	$8.0 \cdot 10^{-4}$
	int	15	17	$8.1 \cdot 10^{-4}$	$4.0 \cdot 10^{-2}$	$5.1 \cdot 10^{-3}$	$3.2 \cdot 10^{-2}$
	hot	72	$2.5 \cdot 10^2$	$8.9 \cdot 10^{-3}$	0.44	$5.1 \cdot 10^{-2}$	0.15
LGR2	cool	12	14	$4.3 \cdot 10^{-3}$	$4.2 \cdot 10^{-2}$	$8.3 \cdot 10^{-3}$	$4.3 \cdot 10^{-2}$
	int	23	21	$3.8 \cdot 10^{-3}$	$5.0 \cdot 10^{-2}$	$7.6 \cdot 10^{-3}$	$4.0 \cdot 10^{-2}$
	hot	$1.4 \cdot 10^2$	$2.2 \cdot 10^2$	$7.9 \cdot 10^{-3}$	0.28	$4.8 \cdot 10^{-2}$	0.11
LGR4	cool	11	12	$2.3 \cdot 10^{-3}$	$3.4 \cdot 10^{-2}$	$4.5 \cdot 10^{-3}$	$3.1 \cdot 10^{-2}$
	int	21	22	$2.0 \cdot 10^{-3}$	$3.0 \cdot 10^{-2}$	$3.9 \cdot 10^{-3}$	$2.6 \cdot 10^{-2}$
	hot	88	$1.5 \cdot 10^2$	$4.4 \cdot 10^{-3}$	0.19	$2.5 \cdot 10^{-2}$	$8.4 \cdot 10^{-2}$
LGR8	cool	6.5	7.7	$6.3 \cdot 10^{-4}$	$8.9 \cdot 10^{-3}$	$1.1 \cdot 10^{-3}$	$9.6 \cdot 10^{-3}$
	int	26	28	$2.6 \cdot 10^{-3}$	0.11	$1.4 \cdot 10^{-2}$	$7.8 \cdot 10^{-2}$
	hot	99	$1.6 \cdot 10^2$	$3.2 \cdot 10^{-3}$	0.15	$2.1 \cdot 10^{-2}$	$8.0 \cdot 10^{-2}$

NOTE—Time series over $0.5 t_{\text{orb}} < t < 1.5 t_{\text{orb}}$ is considered. Columns (3) and (4) are in units of km/s. Columns (5)-(8) are dimensionless.

Table 4.2a. Time averaged velocities and metal properties at $|z| = 2H$

Model	phase	\bar{v}_{out}	$\bar{v}_{\mathcal{B}}$	\bar{Z}	ζ	f_M^{SN}	f_Z^{SN}
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
R2	cool	97	$1.3 \cdot 10^2$	$4.2 \cdot 10^{-2}$	1.2	$4.4 \cdot 10^{-2}$	0.21
	int	$1.6 \cdot 10^2$	$2.2 \cdot 10^2$	$4.4 \cdot 10^{-2}$	1.3	$5.6 \cdot 10^{-2}$	0.26
	hot	$4.5 \cdot 10^2$	$1.0 \cdot 10^3$	$6.1 \cdot 10^{-2}$	1.8	0.16	0.53
R4	cool	63	84	$3.4 \cdot 10^{-2}$	1.1	$2.2 \cdot 10^{-2}$	0.13
	int	$1.2 \cdot 10^2$	$1.7 \cdot 10^2$	$3.5 \cdot 10^{-2}$	1.2	$3.0 \cdot 10^{-2}$	0.17
	hot	$3.2 \cdot 10^2$	$6.7 \cdot 10^2$	$4.3 \cdot 10^{-2}$	1.4	$7.6 \cdot 10^{-2}$	0.35
R8	cool	29	47	$2.3 \cdot 10^{-2}$	1.1	$6.5 \cdot 10^{-3}$	$5.7 \cdot 10^{-2}$
	int	69	$1.3 \cdot 10^2$	$2.4 \cdot 10^{-2}$	1.1	$1.2 \cdot 10^{-2}$	0.10
	hot	$2.0 \cdot 10^2$	$4.9 \cdot 10^2$	$2.9 \cdot 10^{-2}$	1.4	$4.3 \cdot 10^{-2}$	0.29
R16	cool	10	22	$2.0 \cdot 10^{-2}$	1.0	$1.5 \cdot 10^{-4}$	$1.7 \cdot 10^{-3}$
	int	32	95	$2.2 \cdot 10^{-2}$	1.1	$8.4 \cdot 10^{-3}$	$9.1 \cdot 10^{-2}$
	hot	$1.0 \cdot 10^2$	$4.0 \cdot 10^2$	$2.9 \cdot 10^{-2}$	1.5	$3.0 \cdot 10^{-2}$	0.31
LGR2	cool	68	93	$3.7 \cdot 10^{-2}$	1.1	$2.6 \cdot 10^{-2}$	0.14
	int	$1.4 \cdot 10^2$	$1.9 \cdot 10^2$	$4.0 \cdot 10^{-2}$	1.2	$4.3 \cdot 10^{-2}$	0.22
	hot	$3.7 \cdot 10^2$	$8.0 \cdot 10^2$	$5.2 \cdot 10^{-2}$	1.6	0.11	0.44
LGR4	cool	36	54	$2.9 \cdot 10^{-2}$	1.1	$9.7 \cdot 10^{-3}$	$6.8 \cdot 10^{-2}$
	int	85	$1.5 \cdot 10^2$	$3.0 \cdot 10^{-2}$	1.1	$2.0 \cdot 10^{-2}$	0.13
	hot	$2.5 \cdot 10^2$	$5.6 \cdot 10^2$	$3.8 \cdot 10^{-2}$	1.4	$6.1 \cdot 10^{-2}$	0.33
LGR8	cool	22	38	$2.2 \cdot 10^{-2}$	1.0	$2.8 \cdot 10^{-3}$	$2.7 \cdot 10^{-2}$
	int	52	$1.3 \cdot 10^2$	$2.4 \cdot 10^{-2}$	1.1	$1.4 \cdot 10^{-2}$	0.11
	hot	$1.4 \cdot 10^2$	$3.8 \cdot 10^2$	$2.8 \cdot 10^{-2}$	1.3	$3.5 \cdot 10^{-2}$	0.26

NOTE—Time series over $0.5 t_{\text{orb}} < t < 1.5 t_{\text{orb}}$ is considered. Columns (3) and (4) are in units of km/s. Columns (5)-(8) are dimensionless.

Table 4.2b. Standard deviations of velocities and metal properties at $|z| = 2H$

Model	phase	\bar{v}_{out}	$\bar{v}_{\mathcal{B}}$	\bar{Z}	ζ	f_M^{SN}	f_Z^{SN}
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
R2	cool	25	24	$5.1 \cdot 10^{-3}$	$7.8 \cdot 10^{-2}$	$1.2 \cdot 10^{-2}$	$5.8 \cdot 10^{-2}$
	int	30	27	$5.0 \cdot 10^{-3}$	$8.7 \cdot 10^{-2}$	$1.1 \cdot 10^{-2}$	$5.7 \cdot 10^{-2}$
	hot	$1.1 \cdot 10^2$	$2.4 \cdot 10^2$	$9.6 \cdot 10^{-3}$	0.20	$4.2 \cdot 10^{-2}$	$7.2 \cdot 10^{-2}$
R4	cool	17	18	$2.0 \cdot 10^{-3}$	$6.2 \cdot 10^{-2}$	$8.8 \cdot 10^{-3}$	$5.5 \cdot 10^{-2}$
	int	20	18	$1.7 \cdot 10^{-3}$	$6.7 \cdot 10^{-2}$	$8.4 \cdot 10^{-3}$	$5.3 \cdot 10^{-2}$
	hot	75	$1.4 \cdot 10^2$	$3.7 \cdot 10^{-3}$	0.18	$2.4 \cdot 10^{-2}$	$8.6 \cdot 10^{-2}$
R8	cool	9.5	11	$7.4 \cdot 10^{-4}$	$1.3 \cdot 10^{-2}$	$1.6 \cdot 10^{-3}$	$1.3 \cdot 10^{-2}$
	int	14	16	$7.1 \cdot 10^{-4}$	$1.5 \cdot 10^{-2}$	$1.9 \cdot 10^{-3}$	$1.4 \cdot 10^{-2}$
	hot	61	$1.3 \cdot 10^2$	$2.7 \cdot 10^{-3}$	0.11	$1.4 \cdot 10^{-2}$	$6.2 \cdot 10^{-2}$
R16	cool	4.9	3.9	$8.9 \cdot 10^{-5}$	$4.7 \cdot 10^{-3}$	$2.9 \cdot 10^{-4}$	$3.0 \cdot 10^{-3}$
	int	23	28	$9.8 \cdot 10^{-4}$	$4.9 \cdot 10^{-2}$	$6.4 \cdot 10^{-3}$	$4.3 \cdot 10^{-2}$
	hot	71	$2.2 \cdot 10^2$	$7.5 \cdot 10^{-3}$	0.37	$4.1 \cdot 10^{-2}$	0.15
LGR2	cool	26	27	$4.3 \cdot 10^{-3}$	$3.9 \cdot 10^{-2}$	$7.0 \cdot 10^{-3}$	$3.4 \cdot 10^{-2}$
	int	34	30	$3.9 \cdot 10^{-3}$	$5.8 \cdot 10^{-2}$	$8.8 \cdot 10^{-3}$	$4.3 \cdot 10^{-2}$
	hot	$1.3 \cdot 10^2$	$2.0 \cdot 10^2$	$6.2 \cdot 10^{-3}$	0.21	$3.5 \cdot 10^{-2}$	$9.6 \cdot 10^{-2}$
LGR4	cool	15	15	$2.1 \cdot 10^{-3}$	$2.7 \cdot 10^{-2}$	$3.8 \cdot 10^{-3}$	$2.6 \cdot 10^{-2}$
	int	32	28	$2.3 \cdot 10^{-3}$	$4.5 \cdot 10^{-2}$	$6.7 \cdot 10^{-3}$	$3.7 \cdot 10^{-2}$
	hot	$1.1 \cdot 10^2$	$1.7 \cdot 10^2$	$3.4 \cdot 10^{-3}$	0.13	$2.0 \cdot 10^{-2}$	$7.1 \cdot 10^{-2}$
LGR8	cool	14	13	$7.2 \cdot 10^{-4}$	$1.1 \cdot 10^{-2}$	$1.5 \cdot 10^{-3}$	$1.1 \cdot 10^{-2}$
	int	31	31	$1.6 \cdot 10^{-3}$	$6.4 \cdot 10^{-2}$	$7.8 \cdot 10^{-3}$	$5.4 \cdot 10^{-2}$
	hot	$1.0 \cdot 10^2$	$1.5 \cdot 10^2$	$2.3 \cdot 10^{-3}$	0.12	$1.6 \cdot 10^{-2}$	$6.5 \cdot 10^{-2}$

NOTE—Time series over $0.5 t_{\text{orb}} < t < 1.5 t_{\text{orb}}$ is considered. Columns (3) and (4) are in units of km/s. Columns (5)-(8) are dimensionless.

Table 4.3a. Time averaged velocities and metal properties at $|z| = 500$ pc

Model	phase	\bar{v}_{out}	$\bar{v}_{\mathcal{B}}$	\bar{Z}	ζ	f_M^{SN}	f_Z^{SN}
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
R2	cool	91	$1.2 \cdot 10^2$	$4.1 \cdot 10^{-2}$	1.2	$3.9 \cdot 10^{-2}$	0.19
	int	$1.6 \cdot 10^2$	$2.2 \cdot 10^2$	$4.3 \cdot 10^{-2}$	1.3	$5.2 \cdot 10^{-2}$	0.25
	hot	$5.2 \cdot 10^2$	$1.2 \cdot 10^3$	$6.6 \cdot 10^{-2}$	1.9	0.19	0.57
R4	cool	60	81	$3.3 \cdot 10^{-2}$	1.1	$1.8 \cdot 10^{-2}$	0.11
	int	$1.1 \cdot 10^2$	$1.7 \cdot 10^2$	$3.5 \cdot 10^{-2}$	1.2	$2.7 \cdot 10^{-2}$	0.15
	hot	$3.6 \cdot 10^2$	$7.5 \cdot 10^2$	$4.5 \cdot 10^{-2}$	1.5	$8.7 \cdot 10^{-2}$	0.38
R8	cool	24	43	$2.2 \cdot 10^{-2}$	1.0	$4.8 \cdot 10^{-3}$	$4.3 \cdot 10^{-2}$
	int	69	$1.4 \cdot 10^2$	$2.4 \cdot 10^{-2}$	1.1	$1.2 \cdot 10^{-2}$	0.10
	hot	$2.3 \cdot 10^2$	$5.6 \cdot 10^2$	$3.1 \cdot 10^{-2}$	1.4	$5.0 \cdot 10^{-2}$	0.32
R16	cool	7.8	20	$2.0 \cdot 10^{-2}$	1.0	$2.6 \cdot 10^{-4}$	$2.5 \cdot 10^{-3}$
	int	34	98	$2.2 \cdot 10^{-2}$	1.1	$7.2 \cdot 10^{-3}$	$7.0 \cdot 10^{-2}$
	hot	$1.3 \cdot 10^2$	$5.8 \cdot 10^2$	$3.2 \cdot 10^{-2}$	1.6	$5.3 \cdot 10^{-2}$	0.36
LGR2	cool	58	83	$3.6 \cdot 10^{-2}$	1.1	$2.1 \cdot 10^{-2}$	0.12
	int	$1.3 \cdot 10^2$	$1.9 \cdot 10^2$	$3.9 \cdot 10^{-2}$	1.2	$3.9 \cdot 10^{-2}$	0.20
	hot	$4.1 \cdot 10^2$	$9.2 \cdot 10^2$	$5.5 \cdot 10^{-2}$	1.7	0.13	0.47
LGR4	cool	38	55	$2.8 \cdot 10^{-2}$	1.1	$8.5 \cdot 10^{-3}$	$6.0 \cdot 10^{-2}$
	int	90	$1.5 \cdot 10^2$	$3.0 \cdot 10^{-2}$	1.1	$1.8 \cdot 10^{-2}$	0.12
	hot	$2.9 \cdot 10^2$	$7.0 \cdot 10^2$	$4.0 \cdot 10^{-2}$	1.5	$7.5 \cdot 10^{-2}$	0.37
LGR8	cool	15	29	$2.2 \cdot 10^{-2}$	1.0	$1.4 \cdot 10^{-3}$	$1.3 \cdot 10^{-2}$
	int	54	$1.2 \cdot 10^2$	$2.4 \cdot 10^{-2}$	1.1	$1.1 \cdot 10^{-2}$	$9.1 \cdot 10^{-2}$
	hot	$1.8 \cdot 10^2$	$5.0 \cdot 10^2$	$2.9 \cdot 10^{-2}$	1.4	$4.1 \cdot 10^{-2}$	0.28

NOTE—Time series over $0.5 t_{\text{orb}} < t < 1.5 t_{\text{orb}}$ is considered. Columns (3) and (4) are in units of km/s. Columns (5)-(8) are dimensionless.

Table 4.3b. Standard deviations of velocities and metal properties at $|z| = 500$ pc

Model	phase	\bar{v}_{out}	$\bar{v}_{\mathcal{B}}$	\bar{Z}	ζ	f_M^{SN}	f_Z^{SN}
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
R2	cool	23	24	$5.1 \cdot 10^{-3}$	$6.9 \cdot 10^{-2}$	$1.1 \cdot 10^{-2}$	$5.6 \cdot 10^{-2}$
	int	26	24	$5.2 \cdot 10^{-3}$	$7.4 \cdot 10^{-2}$	$1.0 \cdot 10^{-2}$	$5.2 \cdot 10^{-2}$
	hot	$1.0 \cdot 10^2$	$2.3 \cdot 10^2$	$8.4 \cdot 10^{-3}$	0.29	$4.3 \cdot 10^{-2}$	$8.0 \cdot 10^{-2}$
R4	cool	15	16	$2.3 \cdot 10^{-3}$	$4.9 \cdot 10^{-2}$	$7.6 \cdot 10^{-3}$	$4.6 \cdot 10^{-2}$
	int	20	19	$2.0 \cdot 10^{-3}$	$5.3 \cdot 10^{-2}$	$6.9 \cdot 10^{-3}$	$4.4 \cdot 10^{-2}$
	hot	96	$1.9 \cdot 10^2$	$5.3 \cdot 10^{-3}$	0.28	$3.7 \cdot 10^{-2}$	0.11
R8	cool	8.2	10	$6.1 \cdot 10^{-4}$	$1.1 \cdot 10^{-2}$	$1.3 \cdot 10^{-3}$	$1.1 \cdot 10^{-2}$
	int	18	21	$7.5 \cdot 10^{-4}$	$2.2 \cdot 10^{-2}$	$2.6 \cdot 10^{-3}$	$2.0 \cdot 10^{-2}$
	hot	68	$1.5 \cdot 10^2$	$3.9 \cdot 10^{-3}$	0.16	$2.0 \cdot 10^{-2}$	$7.5 \cdot 10^{-2}$
R16	cool	2.9	3.6	$2.5 \cdot 10^{-4}$	$1.2 \cdot 10^{-2}$	$1.2 \cdot 10^{-3}$	$1.1 \cdot 10^{-2}$
	int	16	22	$1.2 \cdot 10^{-3}$	$5.8 \cdot 10^{-2}$	$6.6 \cdot 10^{-3}$	$4.7 \cdot 10^{-2}$
	hot	78	$2.6 \cdot 10^2$	$8.3 \cdot 10^{-3}$	0.41	$4.8 \cdot 10^{-2}$	0.14
LGR2	cool	19	21	$4.4 \cdot 10^{-3}$	$4.2 \cdot 10^{-2}$	$8.2 \cdot 10^{-3}$	$4.1 \cdot 10^{-2}$
	int	28	25	$3.8 \cdot 10^{-3}$	$5.2 \cdot 10^{-2}$	$7.1 \cdot 10^{-3}$	$3.9 \cdot 10^{-2}$
	hot	$1.5 \cdot 10^2$	$2.5 \cdot 10^2$	$8.7 \cdot 10^{-3}$	0.26	$4.9 \cdot 10^{-2}$	0.11
LGR4	cool	12	14	$1.9 \cdot 10^{-3}$	$4.1 \cdot 10^{-2}$	$5.0 \cdot 10^{-3}$	$3.7 \cdot 10^{-2}$
	int	21	18	$2.0 \cdot 10^{-3}$	$3.2 \cdot 10^{-2}$	$4.2 \cdot 10^{-3}$	$2.9 \cdot 10^{-2}$
	hot	86	$1.5 \cdot 10^2$	$5.0 \cdot 10^{-3}$	0.16	$2.4 \cdot 10^{-2}$	$7.7 \cdot 10^{-2}$
LGR8	cool	8.6	9.9	$6.7 \cdot 10^{-4}$	$1.1 \cdot 10^{-2}$	$1.4 \cdot 10^{-3}$	$1.2 \cdot 10^{-2}$
	int	24	24	$1.8 \cdot 10^{-3}$	$7.6 \cdot 10^{-2}$	$9.6 \cdot 10^{-3}$	$5.6 \cdot 10^{-2}$
	hot	84	$1.5 \cdot 10^2$	$3.1 \cdot 10^{-3}$	0.15	$2.0 \cdot 10^{-2}$	$8.0 \cdot 10^{-2}$

NOTE—Time series over $0.5 t_{\text{orb}} < t < 1.5 t_{\text{orb}}$ is considered. Columns (3) and (4) are in units of km/s. Columns (5)-(8) are dimensionless.

Table 4.4a. Time averaged velocities and metal properties at $|z| = 1$ kpc

Model	phase	\bar{v}_{out}	$\bar{v}_{\mathcal{B}}$	\bar{Z}	ζ	f_M^{SN}	f_Z^{SN}
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
R2	cool	$1.1 \cdot 10^2$	$1.4 \cdot 10^2$	$4.3 \cdot 10^{-2}$	1.2	$5.1 \cdot 10^{-2}$	0.24
	int	$1.7 \cdot 10^2$	$2.2 \cdot 10^2$	$4.5 \cdot 10^{-2}$	1.3	$6.3 \cdot 10^{-2}$	0.28
	hot	$3.9 \cdot 10^2$	$8.3 \cdot 10^2$	$5.6 \cdot 10^{-2}$	1.7	0.13	0.47
R4	cool	78	98	$3.5 \cdot 10^{-2}$	1.2	$2.8 \cdot 10^{-2}$	0.16
	int	$1.3 \cdot 10^2$	$1.8 \cdot 10^2$	$3.6 \cdot 10^{-2}$	1.2	$3.5 \cdot 10^{-2}$	0.19
	hot	$3.0 \cdot 10^2$	$5.9 \cdot 10^2$	$4.2 \cdot 10^{-2}$	1.4	$7.0 \cdot 10^{-2}$	0.33
R8	cool	34	52	$2.3 \cdot 10^{-2}$	1.1	$8.6 \cdot 10^{-3}$	$7.4 \cdot 10^{-2}$
	int	67	$1.3 \cdot 10^2$	$2.4 \cdot 10^{-2}$	1.1	$1.3 \cdot 10^{-2}$	0.11
	hot	$1.7 \cdot 10^2$	$4.3 \cdot 10^2$	$2.8 \cdot 10^{-2}$	1.3	$3.7 \cdot 10^{-2}$	0.26
R16	cool	9.8	22	$2.0 \cdot 10^{-2}$	1.0	$7.9 \cdot 10^{-5}$	$9.0 \cdot 10^{-4}$
	int	33	97	$2.2 \cdot 10^{-2}$	1.1	$7.0 \cdot 10^{-3}$	$7.9 \cdot 10^{-2}$
	hot	$1.2 \cdot 10^2$	$4.9 \cdot 10^2$	$3.0 \cdot 10^{-2}$	1.5	$3.9 \cdot 10^{-2}$	0.33
LGR2	cool	80	$1.0 \cdot 10^2$	$3.7 \cdot 10^{-2}$	1.2	$2.9 \cdot 10^{-2}$	0.16
	int	$1.4 \cdot 10^2$	$1.9 \cdot 10^2$	$4.0 \cdot 10^{-2}$	1.2	$4.4 \cdot 10^{-2}$	0.22
	hot	$3.3 \cdot 10^2$	$7.0 \cdot 10^2$	$4.9 \cdot 10^{-2}$	1.5	0.10	0.40
LGR4	cool	48	65	$2.9 \cdot 10^{-2}$	1.1	$1.3 \cdot 10^{-2}$	$9.3 \cdot 10^{-2}$
	int	93	$1.5 \cdot 10^2$	$3.1 \cdot 10^{-2}$	1.1	$2.2 \cdot 10^{-2}$	0.14
	hot	$2.3 \cdot 10^2$	$5.1 \cdot 10^2$	$3.7 \cdot 10^{-2}$	1.4	$5.6 \cdot 10^{-2}$	0.30
LGR8	cool	22	37	$2.2 \cdot 10^{-2}$	1.0	$2.9 \cdot 10^{-3}$	$2.7 \cdot 10^{-2}$
	int	53	$1.3 \cdot 10^2$	$2.4 \cdot 10^{-2}$	1.1	$1.2 \cdot 10^{-2}$	0.10
	hot	$1.4 \cdot 10^2$	$4.0 \cdot 10^2$	$2.8 \cdot 10^{-2}$	1.3	$3.1 \cdot 10^{-2}$	0.25

NOTE—Time series over $0.5 t_{\text{orb}} < t < 1.5 t_{\text{orb}}$ is considered. Columns (3) and (4) are in units of km/s. Columns (5)-(8) are dimensionless.

Table 4.4b. Standard deviations of velocities and metal properties at $|z| = 1$ kpc

Model	phase	\bar{v}_{out}	$\bar{v}_{\mathcal{B}}$	\bar{Z}	ζ	f_M^{SN}	f_Z^{SN}
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
R2	cool	48	47	$6.1 \cdot 10^{-3}$	$6.6 \cdot 10^{-2}$	$1.2 \cdot 10^{-2}$	$4.8 \cdot 10^{-2}$
	int	66	60	$6.0 \cdot 10^{-3}$	$7.8 \cdot 10^{-2}$	$1.3 \cdot 10^{-2}$	$5.0 \cdot 10^{-2}$
	hot	$1.6 \cdot 10^2$	$2.8 \cdot 10^2$	$9.2 \cdot 10^{-3}$	0.19	$4.0 \cdot 10^{-2}$	$8.3 \cdot 10^{-2}$
R4	cool	28	26	$2.4 \cdot 10^{-3}$	$5.0 \cdot 10^{-2}$	$7.4 \cdot 10^{-3}$	$4.2 \cdot 10^{-2}$
	int	30	25	$2.2 \cdot 10^{-3}$	$5.8 \cdot 10^{-2}$	$7.5 \cdot 10^{-3}$	$4.4 \cdot 10^{-2}$
	hot	87	$1.6 \cdot 10^2$	$3.3 \cdot 10^{-3}$	0.18	$2.4 \cdot 10^{-2}$	$8.9 \cdot 10^{-2}$
R8	cool	15	15	$8.5 \cdot 10^{-4}$	$2.2 \cdot 10^{-2}$	$2.8 \cdot 10^{-3}$	$2.0 \cdot 10^{-2}$
	int	15	15	$6.8 \cdot 10^{-4}$	$1.4 \cdot 10^{-2}$	$1.7 \cdot 10^{-3}$	$1.2 \cdot 10^{-2}$
	hot	54	$1.1 \cdot 10^2$	$2.2 \cdot 10^{-3}$	$8.3 \cdot 10^{-2}$	$1.1 \cdot 10^{-2}$	$5.1 \cdot 10^{-2}$
R16	cool	5.0	4.8	$1.2 \cdot 10^{-4}$	$4.9 \cdot 10^{-3}$	$3.8 \cdot 10^{-4}$	$3.9 \cdot 10^{-3}$
	int	16	22	$1.1 \cdot 10^{-3}$	$5.8 \cdot 10^{-2}$	$6.8 \cdot 10^{-3}$	$4.8 \cdot 10^{-2}$
	hot	61	$2.2 \cdot 10^2$	$6.9 \cdot 10^{-3}$	0.34	$4.1 \cdot 10^{-2}$	0.14
LGR2	cool	40	39	$4.5 \cdot 10^{-3}$	$5.0 \cdot 10^{-2}$	$9.1 \cdot 10^{-3}$	$4.3 \cdot 10^{-2}$
	int	48	40	$4.2 \cdot 10^{-3}$	$5.9 \cdot 10^{-2}$	$1.0 \cdot 10^{-2}$	$4.4 \cdot 10^{-2}$
	hot	$1.4 \cdot 10^2$	$2.2 \cdot 10^2$	$7.0 \cdot 10^{-3}$	0.20	$3.6 \cdot 10^{-2}$	$9.7 \cdot 10^{-2}$
LGR4	cool	26	25	$2.1 \cdot 10^{-3}$	$4.9 \cdot 10^{-2}$	$6.9 \cdot 10^{-3}$	$4.4 \cdot 10^{-2}$
	int	34	29	$2.3 \cdot 10^{-3}$	$5.4 \cdot 10^{-2}$	$7.8 \cdot 10^{-3}$	$4.2 \cdot 10^{-2}$
	hot	$1.0 \cdot 10^2$	$1.4 \cdot 10^2$	$4.0 \cdot 10^{-3}$	0.12	$1.9 \cdot 10^{-2}$	$7.0 \cdot 10^{-2}$
LGR8	cool	19	20	$7.7 \cdot 10^{-4}$	$1.9 \cdot 10^{-2}$	$2.3 \cdot 10^{-3}$	$1.9 \cdot 10^{-2}$
	int	31	35	$1.8 \cdot 10^{-3}$	$7.1 \cdot 10^{-2}$	$9.2 \cdot 10^{-3}$	$5.5 \cdot 10^{-2}$
	hot	87	$1.3 \cdot 10^2$	$2.6 \cdot 10^{-3}$	0.12	$1.9 \cdot 10^{-2}$	$7.2 \cdot 10^{-2}$

NOTE—Time series over $0.5 t_{\text{orb}} < t < 1.5 t_{\text{orb}}$ is considered. Columns (3) and (4) are in units of km/s. Columns (5)-(8) are dimensionless.