

Yuko Ohara

*The Enthalpy of Vaporization
for chamber ensemble
(2011)*

Instrumentation

Flute (doubling Alto Flute)

Oboe (doubling Cor Anglais)

Clarinet in B \flat (Bass Clarinet in B \flat)

Bassoon

Horn

Trumpet in C

Trombone

Percussion (Timpani, Bass Drum, Tam-tam, Bull-roarer, Whip, Marimba,
Vibraphone, Glockenspiel)

Piano

Violin I

Violin II

Viola

Cello

Double Bass

score in C

The Enthalpy of Vaporization -for chamber ensemble-

Yuko Ohara

Tempo: ♩ = 60

Time Signatures: 6/8 (measures 1-4), 5/8 (measures 5-8)

Instrumentation and Performance Instructions:

- Tenor Trombone:** 3:2 triplet, *sffz* → *ppp*
- Bass Drum:** soft mallet, 3:2 triplet, *sffz*
- Tam-tam:** small/large, soft mallet, 3:2 triplet, *sfz*
- Piano:** inside of the piano, pluck the string (LH), with finger nails (RH), pluck the string (LH), pluck the string (LH). Dynamics: *sffz*, *mf*, *sffz*, *sffz*.
- Double Bass:** bow pressure, sul pont., molto sul pont., ord., bow pressure. Dynamics: *sffz* → *ppp*, *sffz* → *ppp*.

5

Bsn. *sfz* *ppp* *sfz* *ppp*

Hn. *sfz* *sfz* *ppp* *sfz*

Tbn. *sfz* *ppp*

Perc. Bull-roarer *sfz* *ppp* *sfz* *ppp*

T.-t. *sfz* *sfz*

Pno. pluck the string (LH) *sfz* *mf* *sfz* *sfz*

Db. *sfz* *sfz* *ppp* *sfz* *sfz* *ppp*

4/8

4/8

9

B. Cl. *flz.* *sfz* *mf* *sfz* *sfz* *ppp*

Bsn. *sfz* *ppp* *sfz* *ppp* *ff*

Hn. *sfz* *ppp* *sfz* *sfz* *ppp*

C Tpt. *con sord. (straight mute)* *sfz*

Tbn. *sfz* *ppp* *sfz*

Perc. *sfz* *ppp* *sfz* *ppp*

T.-t. *sfz* *sfz*

Pno. *sfz* *mf* *gliss.* *sfz* *sfz*

Vc. *pizz.* *sfz* *arco* *ord.* *bow pressure* *sfz* *ppp*

Db. *molto sul pont.* *ord.* *ord.* *sul pont.* *sfz* *fffz* *ppp*

6/8

5/4

A **4**
8

C. A. *sfz*

B. Cl. *sfz* *ppp* *sfz* *pp*

Bsn. *sfz* *ppp* *sfz* *ppp*

Hn. *sfz* *ff*

C Tpt. *sfz*

Tbn. *pp* *sfz*

Timp. *sfz* *sfz*

Perc. *sfz* *ppp*

Pno. *sfz* *sfz*

Vln. I *ff* *pizz. with nails*

Vln. II *ff* *pizz. with nails*

Vla. *ff* *pizz. with nails*

Vc. *sul pont.* *molto sul pont.* *ord.* *bow pressure* *molto sul pont.* *ord.* *sfz* *sffz* *sfz* *sffz*

Db. *sfz* *sffz* *ppp* *molto sul pont.* *ord.* *sul pont.* *molto sul pont.* *ord.* *sul pont.* *sfz* *sffz* *ppp*

Musical score for orchestral instruments, page 5. The score includes parts for A. Fl., C. A., B. Cl., Bsn., Hn., C Tpt., Tbn., Timp., Perc. (Whip), B. D., Pno., Vln. I, Vln. II, Vla., Vc., and Db. The score is marked with measures 17 and 1520. Dynamic markings include *sfz*, *pp*, *ff*, *p*, *ffz*, and *sffz*. Performance instructions include *flz.*, *arco*, *sul pont.*, *ord.*, *pizz.*, and *brush the strings between E and B*. Rhythmic markings include *3:2* and *5:4*.

21 $\frac{5}{8}$

C. A.

B. Cl.

Bsn.

Hn.

Tbn.

Perc.

Mar.

Pno.

$\frac{4}{8}$

flz.

5-4

3-2

5-4

3-2

5-4

3-2

Bull-roarer

3-2

5-4

f

sffz

25 $\frac{5}{8}$

arco, ord.

sul pont.

5-4

sffz

pp

4/8

molto sul pont.

ord.

5-4

sffz

pp

arco, ord.

sul pont.

3-2

molto sul pont.

ord.

sul pont.

3-2

sffz

pp

sffz

pp

25

C. A. flz. 5:4 sfz pp

B. Cl. 5:4 sfz pp

Bsn. 3:2 sfz pp

Hn. 3:2 sfz

Tbn. 5:4 sfz pp

Perc. 7:4 sfz pp

T.-t. 3:2 sfz

Pno. 5:4 sfz

Vln. I pizz. with nail 3:2 ff arco sul pont. flautato for the fingers and the bow 5:4 sfz pp

Vln. II pizz. with nail 3:2 ff arco sul pont. flautato for the fingers and the bow 5:4 sfz pp

Vla. pizz. with nail 3:2 ff arco, ord. bow pressure 7:4 sfz

Vc. sul pont. molto sul pont. ord. sul pont. molto sul pont. ord. 5:4 sfz sfz pp

Db. 3:2 sfz sfz pp

38

29

A. Fl. flz. 7:4 sfz

C. A. flz. 5:4 sfz pp

Bsn. 3:2 sfz pp

Hn. 3:2 sfz

C. Tpt. 3:2 sfz 5:4 pp

Tbn. 5:4 pp mp con sord. (straight)

Perc. 7:4 sfz pp 7:4 sfz pp

Pno. ord. Ped. sfz

Vln. I flautato for the fingers and the bow 5:4 sfz pp

Vln. II flautato for the fingers and the bow 5:4 sfz pp

Vla. sul pont. ord. 2:4 sfz pp molto sul pont. ord. 7:4 sfz

Vc. sul pont. molto sul pont. ord. 5:4 sfz sfz

Db. molto sul pont. 3:2 ord. sul pont. molto sul pont. 3:2 ord. sul pont. sfz sfz pp

33

flz.

$\frac{4}{8}$

A. Fl. *sfz* *pp*

C. A. *sfz* *pp*

B. Cl. *pp* *sfz* *pp*

Bsn. *sfz* *pp*

Hn. *sfz* *pp*

C. Tpt. *sfz* *pp* *ff* *sfz*

Tbn. *sfz* *pp*

Timp. *sfz* *pp*

Perc.

Mar. hard marrett *sfz* *pp*

Pno. *sfz*

$\frac{4}{8}$

Vln. I *sfz* *pp* flautato

Vln. II *sfz* *pp* flautato

Vla. *sfz* *pp* *sfz* *pp* molto sul pont. ord. sul pont.

Vc. *sfz* *pp* *sfz* *pp* molto sul pont. ord. sul pont.

Db. *sfz* *pp* *sfz* *pp* molto sul pont. ord. sul pont.

37 1500

A. Fl. *p* *mf* *mp* *f*

C. A. *pp* *sfz* *pp* *pp*

B. Cl. *sfz* *pp* *sfz* *pp*

Bsn. *sfz* *pp*

Hn. *mf* *pp* *mf* *pp* *mf* *gliss.*

C. Tpt. *ff* *mf* *pp* *pp* *mf*

Tbn. *sfz* *pp* *mf* *pp* *mf* *mf*

B. D. *sfz*

Mar. *sfz* *sfz*

Pno. *sfz* *sfz*

Vln. I *sfz* *pp* *sfz* *pp* *sfz* *pp*

Vln. II *sfz* *pp* *sfz* *pp*

Vla. *sfz* *sfz* *pp* *sfz* *sfz* *pp*

Vc. *sfz* *sfz* *pp* *sfz* *sfz* *pp*

Db. *sfz* *sfz* *pp* *sfz* *sfz* *pp*

ord. bow pressure

sul pont.

molto sul pont.

flautato

3:2 5:4 7:4

C

41 51

A. Fl. *mf* *ff*

C. A. *mp* *ff*

B. Cl. *p* *sfz* *f* *ff* *sfz* change to Cl. in B \flat

Bsn. *pp* *ff* *sfz* strongly attack

Hn. *pp* *mp* *ff* *sfz* *ff*

C Tpt. *f* *ff* *ff* *pp*

Tbn. *pp* *f* *ff* *ff* *pp*

Timp. *sfz* *ff*

Perc. Bull-roarer *ff* *pp*

T.-t. *pp* *ff*

Pno.

Vln. I *sfz* *p* *sfz* *mp* *mf* *ff* flautato flautato flautato *molto sul pont.*

Vln. II *sfz* *pp* *ff* *molto sul pont.*

Vla. *ff* *molto sul pont.*

Vc. *sfz* *sfz* *pp* *ff* *molto sul pont.* *pizz.* *arco, ord.* *ff* *pp*

Db. *sfz* *sfz* *pp* *ff* *molto sul pont.* *pizz.* *sfz*

44

C. A. *flz.* *sfz* *5:4*

Cl. Clarinet in Bb *pp* *3:2* *pp* *3:2* *pp* *3:2*

Hn. *pp*

C Tpt.

Perc. *ff* *pp* *sfz* *pp* *sfz* *3:2* *5:4* *3:2*

Mar. *sfz* *7:4*

Pno. *sfz* *5:4* *Ed.*

Vln. I *ord.* *sul pont.* *molto sul pont.* *ord.*

Vln. II *ord.* *ff* *pp* *molto sul pont.* *ord.* *sfz* *sfz* *3:2*

Vla. *ord.* *ff* *pp* *molto sul pont.* *ord.* *sfz* *sfz* *pp* *7:4*

Vc. *sul pont.* *molto sul pont.* *ord.* *sul pont.* *molto sul pont.* *ord.* *sul pont.* *pp* *5:4*

Db. *arco* *3:2* *sfz* *pp*

47

49 $\frac{5}{4}$ $\frac{3}{8}$ $\frac{4}{8}$ $\frac{5}{4}$ $\frac{3}{8}$

C. A. *sfz* *pp sfz*

Cl.

Bsn. *pp*

Hn. *sffz* *pp*

C Tpt. *ff* *pp* *sfz*

Tbn. *ff* *pp*

Perc. *pp* *sffz* *pp*

T.-t.

Mar. *sfz*

Pno. *sfz*

Vln. I *ord.* *sul pont.* *ff* *pp* *ord.* *sul pont.* *molto sul pont.* *sffz*

Vln. II *pp* *molto sul pont.* *ord.* *sul pont.* *molto sul pont.* *ord.* *sul pont.* *pp*

Vla. *sfz* *sffpp* *ord.* *sul pont.* *molto sul pont.* *ord.* *sul pont.* *pp*

Vc. *molto sul pont.* *ord.* *sul pont.* *molto sul pont.* *ord.* *sul pont.* *pp*

Db. *sul pont.* *molto sul pont.* *ord.* *sul pont.* *molto sul pont.* *ord.* *sul pont.* *pp*

sfz *sffz* *pp* *sfz* *sffz* *pp*

57

3:2

jet whistle

4/8

A. Fl. *sfz*

C. A. *pp* *sfp*

Cl. *flz.* *pp* *mf* *mp*

Bsn. *pp* *pp* *mf*

Hn. *sfz* *flz.* *sfz* *p*

C Tpt. *sfz* *flz.* *sfz* *ff*

Tbn. *sfz* *3:2* *mp*

Timp. *3:2* *sfz* *mp* *ff*

Mar. *11:8* *gliss.* *sfz* *Vibraphone*

Pno. *5:4* *sfz* *5:4* *sfz* *5:4* *sfz*

Vln. I *ord.* *sfz* *pp* *molto sul pont.* *sfz* *ffz* *p* *molto sul pont.* *11:8* *mf*

Vln. II *pp* *9:8* *sfz* *ffz* *pp* *mf* *9:8* *mf*

Vla. *sul pont.* *molto sul pont.* *7:4* *sfz* *ord.* *sfz* *pp* *molto sul pont.* *7:4* *ord.* *sfz* *sfz* *pp*

Vc. *molto sul pont.* *5:4* *ord.* *sfz* *pp* *molto sul pont.* *5:4* *ord.* *sfz* *sfz* *pp*

Db. *sul pont.* *molto sul pont.* *3:2* *ord.* *sfz* *pp* *molto sul pont.* *3:2* *ord.*

sfz *ffz* *pp*

D

61 $\frac{4}{8}$ $\frac{3}{8}$

A. Fl. *mp*

C. A. *mp* *ff*

Cl. *ff* *mp* *sfz* *sfz* *sfz* *tongue ram*

Bsn. *ff* *mp* *sfz* *sfz*

Hn. *ff* *sfz* *sfz* *sfz*

C Tpt. *ff* *mp* *sfz* *sfz*

Tbn. *ff* *mp* *sfz* *sfz*

T.-t. *ff* *sfz*

Vib. *sfz*

Pno. *sfz* *mp* *sfz* *mp*

D

$\frac{4}{8}$ $\frac{3}{8}$

Vln. I *ff* *mp* *ff* *mp* *ff*

Vln. II *ff* *mp* *ff* *mp* *ff* *mp*

Vla. *ff* *mp* *sfz* *mp* *ff* *mp*

Vc. *ff* *mp* *ff* *mp* *ff* *mp*

Db. *ff* *mp* *ff* *mp* *ff*

ord. -----> sul pont.

sul pont.

sul pont.

sul pont.

sul pont.

sul pont.

65 $\frac{3:2}{\infty}$ $\frac{3:2}{\infty}$ 68

A. Fl. sfz

C. A. mp ff mp mp ff mp

Cl. sfz sfz sfz sfz *tongue ram*

Bsn. sfz sfz

Hn. sfz sfz sfz

C. Tpt. sfz sfz sfz

Tbn. sfz $gliss.$ sfz

T. T. sfz sfz sfz

Vib. sfz

Pno. sfz sfz sfz

Vln. I mf sfz ff mf ff

Vln. II ff mf ff

Vla. sfz ff mf

Vc. ff mf ff mf

Db. mf ff mf ff

69 **jet whistle** **3:2** *mf* *sfz* **3:2** **72**

A. Fl. *mf* *sfz*

C. A. **9:8** *sfz* **7:4** *sfz* Oboe

Cl. **7:4** *sfz* **9:8** *sfz* **7:4** *sfz* **9:8** *sfz* **tongue ram**

Bsn. **7:4** *sfz* **3:2** *pp* *pp*

Hn. **11:8** *sfz* **11:8** *sfz*

C Tpt. **5:4** *sfz* **11:8** *sfz*

Tbn. **5:4** *sfz* **3:2** *sfz*

T.-T. **5:4** *sfz*

Vib. **3:2** *pp* *pp*

Pno. **5:4** *sfz* *mp* *mf* *sfz*

Vln. I *mf* **11:8** *ff* *mf* **11:8** *ff*

Vln. II *mf* **9:8** *ff* *mf* **9:8** *ff*

Vla. **7:4** *ff* *mf* **7:4** *ff* *mf*

Vc. **5:4** *ff* *mf* **5:4** *ff* *mf*

Db. **3:2** *ff* *mf* **3:2** *ff*

mf *ff* *mf* *ff*

accel.

Musical score for woodwinds and brass instruments. The score is divided into four measures. The Flute (A. Fl.) part features a 'jet whistle' effect in measures 1, 3, and 4, with a dynamic of *sfz*. The Oboe (Ob.), Clarinet (Cl.), and Bassoon (Bsn.) parts also feature *sfz* dynamics. The Bassoon part includes *pp* dynamics in measures 1 and 2. The Horn (Hn.) part has *sfz* dynamics. The Trumpet (C Tpt.) and Trombone (Tbn.) parts have *sfz* and *mp* dynamics. The Tuba (T.t.) part has *sfz* dynamics. The Vibraphone (Vib.) part has *sfz* and *ff* dynamics. The Piano (Pno.) part has *mp*, *mf*, and *ff* dynamics. The score includes various time signatures such as 3:2, 5:4, 7:4, 9:8, and 11:8, and includes a 'gliss.' marking in the Trombone part.

accel.

Musical score for string instruments. The score is divided into four measures. The Violin I (Vln. I) and Violin II (Vln. II) parts have *mf* and *ff* dynamics. The Viola (Vla.) part has *ff* and *mf* dynamics. The Violoncello (Vc.) part has *ff* and *mf* dynamics. The Double Bass (Db.) part has *mf*, *sfz*, and *ff* dynamics. The score includes various time signatures such as 11:8, 9:8, 7:4, and 5:4.

E ♩ = 90

A. Fl. *ff* jet whistle *mf* *sfz* *mf* *sfz* multiphonics *mf*

Ob. *ff* *mf* *sfz* *mf* *sfz*

Cl. *ff* *mp*

Bsn. *ff* *mp* *mf*

Hn. *sfz* *mf* *sfz* with air

C Tpt. *ff* *mp* *mf* *sfz* *mf* *sfz* with air

Tbn. *ff*

Timp. *f* *sfpp*

B. D.

T.-T. *ff* brush

Vib.

Pno. *sfz* inside of the piano *mf* *gliss.* *gliss.* *gliss.*

Vln. I. *ff* *ff* *mf* *ff* *sfz* *mf* *ff* *gliss.* *gliss.* *gliss.*

Vln. II. *ff* *ff* *mf* *ff* *mf* *ff* *gliss.* *gliss.*

Vla. *ff* *mp* *sfz* pizz.

Vc. *ff* *mp* *sfz* holding each end of the bow, grid it along the strings, moving towards the bridge *ff*

Db. *ff* *sfz* *ff* *mf* *ff* *mf* *col legno* *hit the body*

81

A. Fl. *mf* *ff* *mf* *ff* *mf*

Ob. *sfz*

Cl. *mp* *ff* *mp* *ff* *mf*

Bsn. *mf*

Hn. *mf* *sfz* *mf*

C Tpt. *sfz* *mf* *mf*

Tbn. *mf* *gliss.*

Timp. *ff* *f* *sfpp*

Perc. *3:2*

B. D.

hit under the body *inside of the piano* *gliss.* *gliss.*

mf *ff*

Vln. I *gliss.* *11:8* *gliss.* *11:8* *gliss.* *11:8* *gliss.* *11:8* *gliss.* *11:8* *mf* *ff*

Vln. II *gliss.* *9:8* *gliss.* *9:8* *gliss.* *9:8* *gliss.* *9:8* *gliss.* *9:8* *mf* *ff*

Vla. *arco sul pont.* *sul A* *D* *7:4* *mf* *ff* *pizz.* *sfz*

Vc. *col legno* *3:2* *pizz.* *5:4* *sfz* *ff*

holding each end of the bow, grid it along the strings, moving towards the bridge

Db. *ff*

To. Fl.

83

A. Fl.

Ob.

Cl.

Bsn.

Hn.

C Tpt.

Tbn.

Timp.

Perc.

B. D.

Vln. I

Vln. II

Vla.

Vc.

Db.

with air mf sfz mf

$9:8$ ff $9:8$

$3:2$ $gliss.$ ff $gliss.$ mf $3:2$ $gliss.$ ff

ff mf ff mf ff

$3:2$ ff mf

$gliss.$ $5:4$ $gliss.$ $gliss. \# gliss.$ $gliss.$ $gliss.$ $gliss.$

$11:8$ $gliss.$ pp $11:8$ $gliss.$ ff pp $11:8$ $gliss.$ ff

$9:8$ $gliss.$ mf $9:8$ $gliss.$ ff $9:8$ $gliss.$ mf $9:8$ $gliss.$ ff

arco sul pont. sul A D $7:4$ mf ff pizz. sfz

col legno $3:2$ sfz arco $5:4$ ff

holding each end of the bow, grid it along the strings, moving towards the bridge

F $\text{♩} = 60$

with air → normal

85 Flute *pp* *mf* *pp*

Ob. *mf*

Cl. *p* *mf* *mf*

Bsn. *ff* *p*

C Tpt. *p*

Tbn. *p*

Glockenspiel

Glock. *mf* *mf*

F $\text{♩} = 60$

Vln. I *p* *pp* *mf* *pp*

Vln. II *p* *mf* *pp*

Vla. arco sul pont. *pp* *mf* *pp* sul C *mf* *pp*

Vc. sul G *mf* *p* *mf* *pp*

Db. arco sul pont. *mf* *pp* sul D

5:4 7:4 11:8 9:8 7:4 11:8 5:4 3:2 5:4 7:4 5:4 3:2

88 $\frac{3}{8}$ $\frac{4}{8}$ with air → normal 10:8 11:8 11:8 12:8

Fl. *pp* *mf* *pp* *mp*

Ob. *mp* 7:4

Cl.

Glock. 9:8 11:8 *mf* *mf* 5:4 5:4 9:8 *mf* *mf* *mp*

Vln. I *mf* *pp* sul D 11:8 11:8 11:8 *pp* gliss. *mf* *pp* 12:8

Vln. II sul pont. sul A 9:8 9:8 *mf* *pp* sul D 9:8 gliss. *mf* *pp* sul D 9:8 gliss. *pp* 12:8

Vla. sul G 7:4 sul C *mf* *p* 7:4 *pp* *mf* *pp*

Vc. sul A 5:4 gliss. *mf* *pp* sul A 5:4 gliss. *mf* *pp*

Db.

93 **51** **8** **6** **7** **8** play with bow
pp

T.-t.

Vln. I **51** **8** **6** **7**
sul G 11:8 gliss. *pp* *mf* *pp* sul D 11:8 gliss. *mf* *pp* *ppp*

Vln. II *mf* *pp* *mf* *pp*

Vla. sul G 7:4 gliss. *pp* *mf* *pp*

Vc. sul D 5:4 gliss. *mf* *pp*

Db.